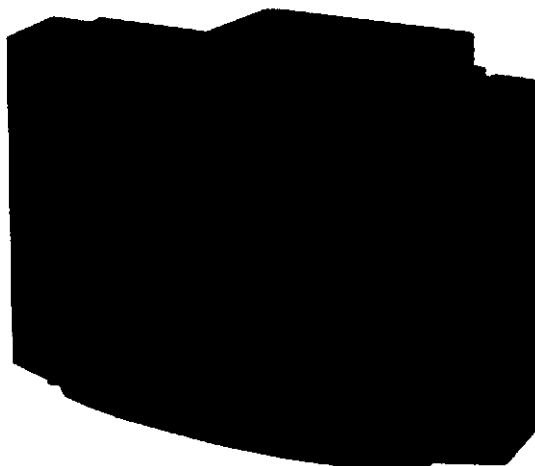


# KV-E2523E/E2923E

**RM-817**

## SERVICE MANUAL



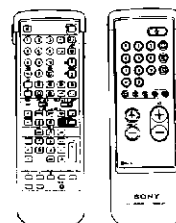
*Spanish Model*

KV-E2523E

Chassis No. SCC-E22A-A

KV-E2923E

Chassis No. SCC-E22B-A



## AE-1C CHASSIS

MODELS OF THE SAME SERIES	
KV-E2521D/E2921D	

TRINITRON. COLOR TV  
**SONY®**

MICROFILM

9-964-648-51

Sony Corporation  
TV Group

English  
91CJ0224-1  
Printed in Japan  
© 1991. 3

# KV-E2521D/E2921D

## RM-817

### SERVICE MANUAL

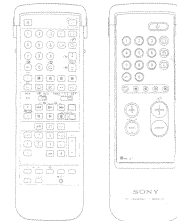
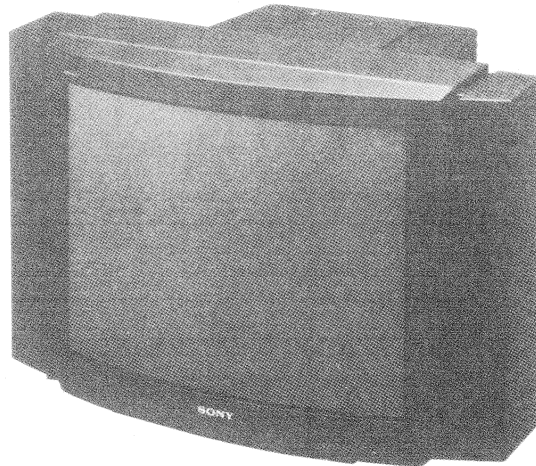
*AEP Model*

KV-E2521D

Chassis No. SCC-E18A-A

KV-E2921D

Chassis No. SCC-E18B-A



## AE-1C CHASSIS

#### MODELS OF THE SAME SERIES

KV-E2521D/E2921D	

#### SPECIFICATIONS

##### 【KV-E2521D/E2921D】

Television system B/G/H  
 Color system PAL, SECAM, NTSC3.58, NTSC4.43  
 Stereo system GERMAN stereo  
 Channel coverage VHF: E2-E12 UHF: E21-E69  
 CABLE TV : S1-S41  
 Picture tube Black Trinitron tube  
 Approx. 63.5 cm (25 inches)  
 (Approx. 59 cm picture measured diagonally)  
 110° -degree deflection  
 Approx. 72.4 cm (29 inches)  
 (Approx. 68 cm picture measured diagonally)  
 110° -degree deflection

Inputs

1 21-pin connector:  
 CENELEC standard including RGB input.  
 2 21-pin connector:  
 including S video input  
 3 Audio and video input jacks: phono jack.  
 Y: 1Vp-p ± 3dB 75ohm  
 C: 0.3Vp-p ± 3dB 75ohm  
 21-pin connector: CENELEC standard  
 Headphones jack: stereo minijack  
 External speaker terminals: 2-pin DIN  
 Audio output jacks: phono jack (output  
 dependent upon TV settings)

Sound output 30 W + 30 W  
 Power consumption 100 Wh (KV-E2521D)  
 114 Wh (KV-E2921D)  
 Dimensions incl. speakers Approx. 757x493x468 mm (w/h/d)  
 (KV-E2521D)  
 Approx. 838x554x517 mm (w/h/d)  
 (KV-E2921D)  
 Weight incl. speakers Approx. 41.0kg (KV-E2521D)  
 Approx. 55.0kg (KV-E2921D)

##### 【RM-817】

Remote control system infrared control  
 Power requirements 3V dc  
 2 batteries IEC designation  
 R6 (size AA)  
 Dimensions Approx. 75 × 221 × 23mm(w/h/d)  
 Weight Approx. 194g including batters  
 Accessories supplied IEC designation R6 Commander

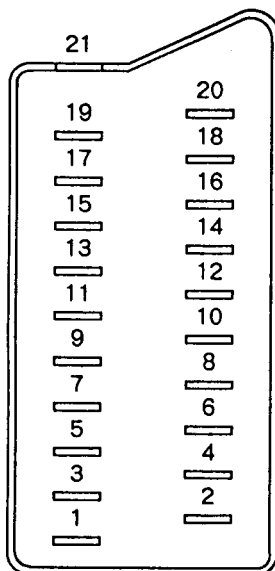
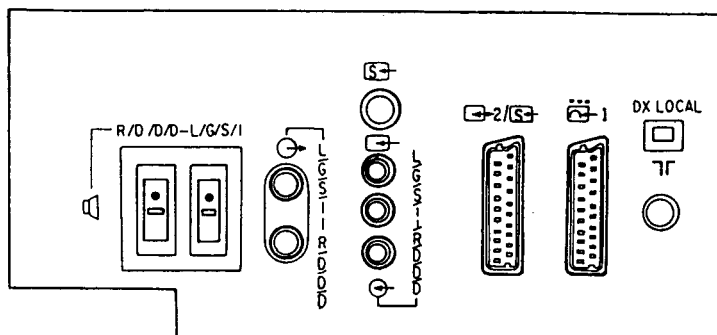
Supplied accessories RM-817 Remote Commander (1)  
 IEC designation R6 batteries (2)

Design and specifications are subject to change without notice.

**TRINITRON® COLOR TV**  
**SONY®**



## 21 pin connector (1, 2)



Pin No	1	2	Signal	Signal level
1	○	○	Audio output B (right)	Standard level : 0.5Vrms Output impedance : Less than 1kohm*
2	○	○	Audio input B (right)	Standard level : 0.5Vrms Input impedance : More than 10kohms*
3	○	○	Audio output A (left)	Standard level : 0.5Vrms Output impedance : Less than 1kohm*
4	○	○	Ground (audio)	
5	○	○	Ground (blue)	
6	○	○	Audio input A (left)	Standard level : 0.5Vrms Input impedance : More than 10kohms*
7	○	●	Blue input	0.7V±3dB, 75ohms, positive
8	○	○	Function select (AV control)	High state (9.5-12 V) : Part mode Low state (0-2 V) : TV mode Input impedance : More than 10kohms Input capacitance : Less than 2 nF
9	○	○	Ground (green)	
10	○	○	Open	
11	○	●	Green	Green signal : 0.7V±3dB, 75ohms, positive
12	○	○	Open	
13	○	○	Ground (red)	
14	○	○	Ground (blanking)	
15	○	-	Red input	0.7V±3dB, 75ohms, positive
	-	○	(S signal) chroma input	0.3V±3dB, 75ohms, positive
16	○	●	Blanking input (Ys signal)	High state (1-3 V) Low state (0-0.4 V) Input impedance : 75ohms
17	○	○	Ground (video output)	
18	○	○	Ground (video input)	
19	○	○	Video output	1V±3dB, 75ohms, positive Sync : 0.3V (-3, +10dB)
20	○	-	Video input	1 V±3dB, 75ohms, positive Sync : 0.3V (-3, +10dB)
	-	○	Video input/Y (S signal)	1 V±3dB, 75ohms, positive Sync : 0.3V (-3, +10dB)
21	○	○	Common ground (plug, shield)	

○ connected ● unconnected (open)

\* at 20 Hz-20 kHz


## 4 pin connector (1, 2)

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V±3dB 75ohm, positive Sync 0.3V $^{-3}_{+10}$ dB
4	C (S signal) input	0.3V± 3dB 75ohm, positive

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### SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK  
 ON THE SCHEMATIC DIAGRAMS, EXPLODED  
VIEWS AND IN THE PARTS LIST ARE CRITICAL TO  
SAFE OPERATION. REPLACE THESE COMPONENTS  
WITH SONY PARTS WHOSE PART NUMBERS APPEAR  
AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS  
PUBLISHED BY SONY.



# SECTION 1 GENERAL

Note) The layout, etc., will be slightly different from the operating instructions packed with the units.

## TV channel presetting

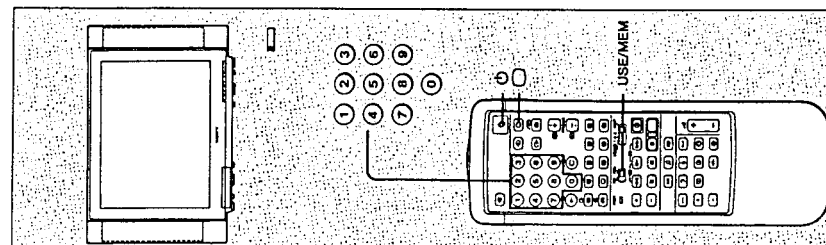
After installing the TV set, TV channels must be preset.

TV broadcasting stations broadcast their programmes on certain fixed frequencies (channels). In order to receive these programmes it is necessary to search for the relevant broadcasting station and to set record it as a channel. The "programme number" is the number that the user decides to associate with a certain channel.

For channel settings there are 60 positions available in the memory. In this way all stations broadcasting within the user's country can be received and recorded as a channel.

### Turning the TV unit ON and OFF

Operation	Result
<b>1</b> Press  on the TV set.	The TV set will come on. Note: If no picture appears on the screen, the TV set is in the stand-by mode. In this case follow instructions given in step 2.
<b>2</b> Press  or one of the selection numbers of the remote control unit.  1 2 3 4 5 6 7 8 9 0	A programme number appears on the screen.  
Temporarily turning off the TV set: Press  on the remote control unit.	The TV set will enter the stand-by mode. It can be turned on again by pressing the  button, or the selection button of the remote control unit.
Turning off the TV set definitively: Press  on the TV set.	The TV set will be turned off.

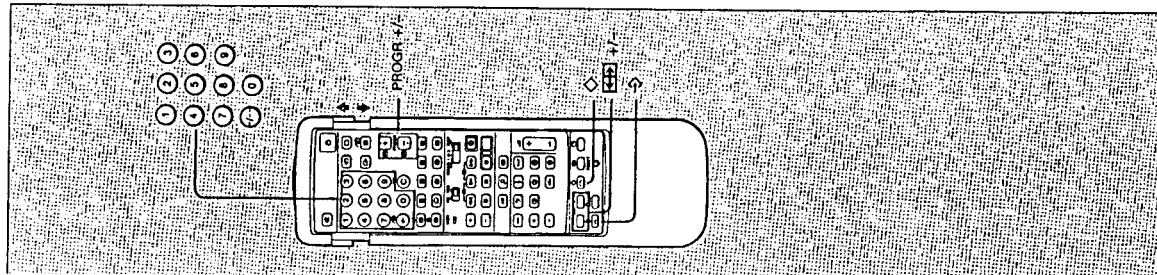


NOTE  
When the "complete" side of the remote control unit is used, check that the USE/MEM selector is in the USE position.

### TV channels automatic presetting

If the numbers to be associated with certain TV channels are already known, the following explanation can be skipped. In this case go directly to the section "TV channels direct selection".

Operation	Result
<b>1</b> Press  to begin the preselection.	The programme number flashes.  
<b>2</b> Press PROG + /- buttons of the remote control unit to select the channel number of the broadcasting station you want to memorize.  PROG + 1 2 3 - 4 5 6 7 8 9 + 0  NOTE: To select a 2-figure number press the /- button. E.g., if you wish to select number 23, press /- first, and then 2 and 3.	The programme number on the screen changes. NOTE: In case of a mistake, the "X" letter appears. Repeat once more the operation of step 2.  
<b>3</b> To search for broadcasting stations press  +  and  +  buttons.  + +	When a broadcasting station is tuned correctly, the search will stop. If you want to skip it, press  + or  - again.  
<b>4</b> Press  to memorize the channel to that the broadcasting station is tuned.	All data visualized under the channel number disappears from the screen.  
<b>5</b> To memorize other broadcasting stations repeat steps from 1 to 4.	



## Direct TV channel setting

Direct presetting of TV channels is faster than automatic presetting. With this function any broadcasting station can be searched for and set as the desired channel.

Operation	Result
<b>1</b> Press → to begin the presetting.	
<b>2</b> Press the PROG. +/- buttons of the remote control unit to select the channel number under which you want to set the broadcasting station.  <b>Note</b> To select a 2-figure number press +/- button. E.g., if you wish to select number 23, press +/- first, and then 2 and 3.	 The programme number on the screen changes. <b>Note</b> In case of mistake, the "X" letter appears on the screen. Repeat once more the operation of step 2.
<b>3</b> Press C. If you wish to select a cable station press C twice.	 Indication "C-" ("S-" for cable stations) flashes on the screen.
<b>4</b> By using the number buttons of the remote control unit select the channel number, always with two figures (for "4" press "04").  <b>Note:</b> Press the second figures within 5 seconds from the first. After 5 seconds the operation is canceled.	 The channel number changes on the screen.
<b>5</b> Press ◇ to memorize the channel to which the station is tuned.	 All indications, except the programme number, disappear from the screen.

To memorize other broadcasting stations repeat the above procedure.

## Exclusion of programmes

Once all desired stations have been memorized, unoccupied channel numbers, with stations of inferior quality signals can be excluded. The undesired channels can be excluded by using the PROG. + and - buttons.

Operation	Result
<b>1</b> Press → to begin presetting.	 The programme number begins to flash on the screen.
<b>2</b> By acting on the PROG. + and - buttons, or on the number keys of the remote control unit, select the programme number you wish to exclude. 	 The programme number changes.
<b>3</b> Press Coo.	 Under the programme number, the preceding channel number appears.
<b>4</b> Press ◇.	 All indications under the programme number disappear from the screen. The excluded programme number will be memorized.

**Note**  
 Undesired channels can be excluded only by using PROG. + and - keys. Excluded programme numbers appear on the screen if you press the number keys of the remote control unit.

## Use of additional tuning functions

### Temporary channel tuning

It is possible to temporarily memorize a channel, even if it has not been preset.

Operation	Result
<b>1</b> Press C. Press C twice for a cable station.	 "C" ("S" for cable stations) indication appears on the screen.
<b>2</b> Using the number keys of the remote control unit select the channel number, always with two figures (e.g., "04" for channel "4").	 The channel will be received, but it will not be set as a programme number.

# Special functions

Use the “simple” side of the remote control unit.

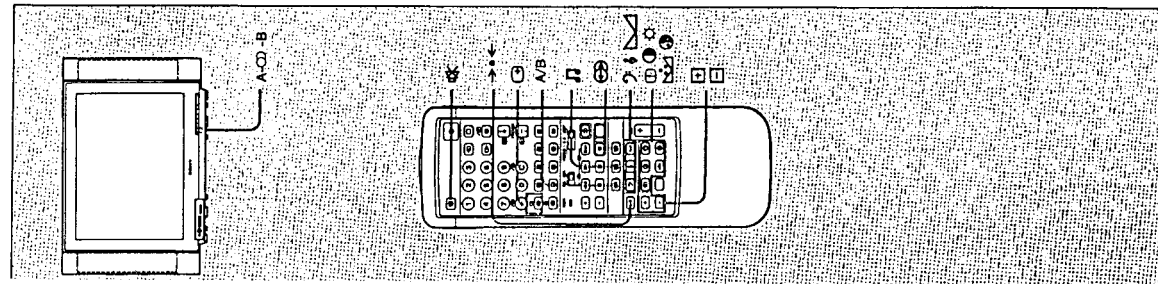
Before selecting programmes make sure that TV channels have been memorized.

Volume control

## Use of additional functions

is also possible to select programmes and to adjust the volume by using  $P \rightarrow \Delta \rightarrow \ominus$  and  $\leftarrow \oplus \rightarrow$  or  $\leftarrow \oplus \rightarrow$  buttons, located on the front panel of the TV set. In this case, press first  $P \rightarrow \Delta \rightarrow \ominus$  until the indication P (channel) or  $\Delta$  (volume) appears on the screen, and then press  $\leftarrow \oplus \rightarrow$  or  $\leftarrow \ominus \rightarrow$  buttons.

press **⏮**. To revert to the TV mode, press **0**. For further information on the teletext service see pag. 8.



The following functions can be used.

## Picture and sound adjustment

## Operation

### Picture adjustment

Sound adjustment

Reversion to the original adjustment  
Press  $\rightarrow \bullet \leftarrow$ .

# Use of the teletext service

**Broadcasting station identification**

By associating a name with a certain broadcasting station it is possible to avoid having to remember, each time, in which channel number that particular station has been memorized.

Five different characters are available for station identification.

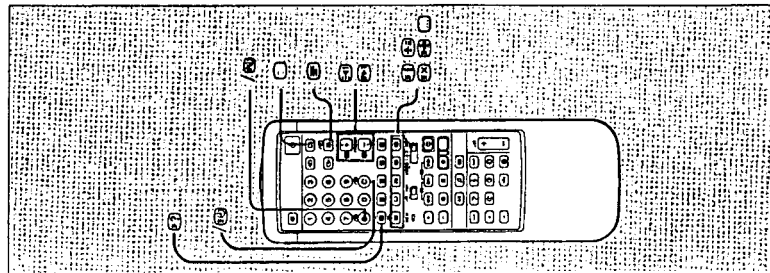
Operation	Result
<b>1</b> By using PROGR + or - or the number keys of the remote control unit, select the programme number to be set for identification.	
<b>2</b> Press →	
<b>3</b> Press □	
<b>4</b> Using the [FWD] + or - buttons select a letter of the alphabet, a number, or a blank space.	
<b>5</b> Press □	
<b>6</b> Repeat steps 4 and 5, and fill all five available spaces.	
<b>7</b> Press ◊.	

## Manual fine tuning

If the picture is not perfect, it is possible to fine tune it manually.

Operation	Result
Press [FWD] + or - repeatedly until the picture is at the optimum.	The indication →F← appears on the screen.
Press → to start presetation.	The programme number starts flashing on the screen.
Press ◊.	Manual fine tuning has been memorized.

Note: Manual fine tuning will be reset when the channel is selected again.








## How to display teletext service

Operation	Result
<b>1</b> Select the channel you want to watch.	The channel changes on the screen.
<b>2</b> Press [P]	
<b>3</b> Use the number keys of the remote control unit to insert the three figures corresponding to the desired teletext page.	The selected page number appears on the screen. After a few seconds, the selected page appears on the screen.
<b>Note</b> In case of a mistake, press any three numbers, and then repeat the operation with the correct numbers.	
<b>To revert to normal TV programmes:</b> Press □.	
<b>To change teletext channel:</b> First press □ to revert to the TV mode, and then repeat procedure steps 1 to 3.	

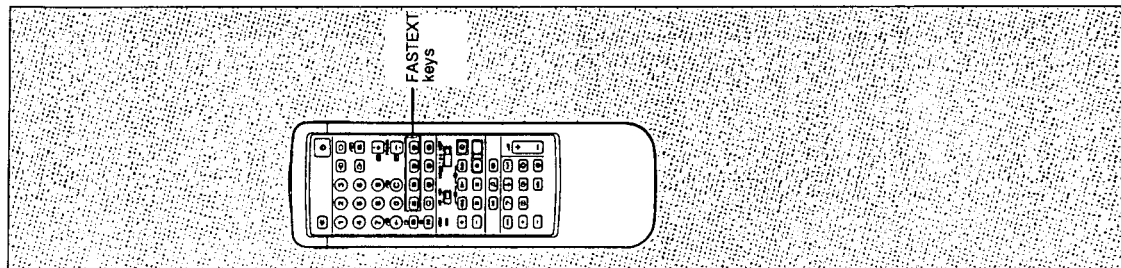
Note: A weak TV signal may cause troubles in the use of teletext.

## Use of special teletext functions

Required function	Operation	Result (on the screen)
Page index required.	Press [P] (INDEX).	
Sub-pages required (page 888).	Press □	The sub-page appears (page 888).
Access to previous or following pages.	Press [P] (PAGE +) or [P] (PAGE -).	

Required function	Operation	Result (on the screen)
Superimposition of the teletext on the TV programme.	In the TV mode, press <b>⏏</b> twice. To revert to the normal teletext function press <b>⏏</b> again.	 Teletext information will appear superimposed on the TV programme.
To prevent page changes due to page up-dating.	Press <b>⏏</b> (STILL). Press <b>⏏</b> (TXT/MIX) to revert to the normal function.	 The <b>⏏</b> (STILL) symbol appears on the screen.
Magnification of teletext characters.	Press once to magnify the upper half of the screen. Press twice to magnify the lower half of the screen. Pressing the button three times the normal vision is restored.	 The upper or the lower half of the page is magnified.
Display of hidden information (answers to quizzes, ecc.).	Press <b>⏏</b> (RIV). Press again to hide the answers.	 The information is displayed.
Watching a programme while the teletext searches for the required page.	1. Ask again for the page.	The number is displayed.
	2. Press <b>⏏</b>	TV programme is displayed.
	3. When the required page has been found, the page number will be displayed.	
Display of a page at a preset time.	4. Press <b>⏏</b> to display the page.	The desired page will be displayed.
	1. Request the page.	The selected page will be displayed.
	2. Press <b>⏏</b> (MEM.T).	In the lower part of the screen the indication "T****" appears.
	3. Set the required time by using the number keys, and by inputting four figures (e.g. 07:30 for "7:30").	The required time is displayed on the screen.
To watch TV programmes until a preset time Press <b>⏏</b> (CANC.). At the required time, the selected page appears in the upper part of the screen. Press <b>⏏</b> to display the page.  To cancel the request Display the teletext page and then press <b>⏏</b> (CANC.M.).	To watch TV programmes until a preset time Press <b>⏏</b> (CANC.). At the required time, the selected page appears in the upper part of the screen. Press <b>⏏</b> to display the page.	
	To cancel the request Display the teletext page and then press <b>⏏</b> (CANC.M.).	

Note: Depending on the teletext service, certain functions may not be available.



### Use of the FASTEXT function

The FASTEXT function allows rapid access, at the touch of a single button, to the teletext functions. In the lower part of the screen, a colour coded index will be displayed when a FASTEXT teletext page is broadcasted. Each colour corresponds to the coloured keys on the remote control unit.

#### Operation

Operation	Result
Press one of the coloured key on the remote control unit corresponding to the coloured indications of the FASTEXT teletext page.	The selected teletext page appears on the screen.

#### Note

The correct use of the FASTEXT teletext function depends on the signal being broadcast by the TV stations. Some TV stations may not broadcast FASTEXT teletext signal.

# Connections and optional functions

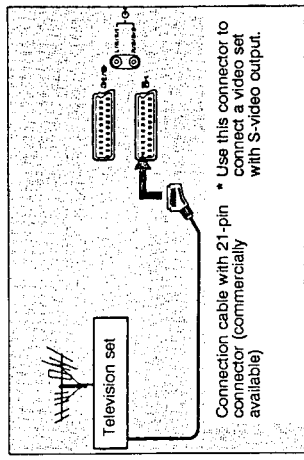
This TV set may be connected to other audio/video machines, such as videocameras, VTRs, videodisc players, or stereo systems.

## Connection to an external audio/video system

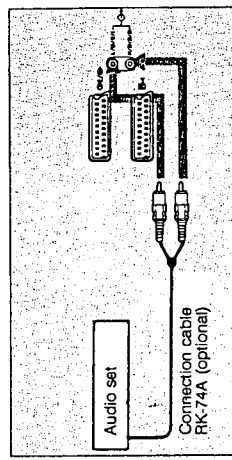
This TV set incorporates three groups of connectors, for input and output to the TV signal. Each group has the following characteristics.

Connector	Input signal	Output signal
1	Normal audio/video signal or RGB signal	TV tuner audio/video signal
2	Normal audio/video signal and S-video signal	Audio/video signal from a selectable source
3	Normal audio/video signal and S-video signal	No signal

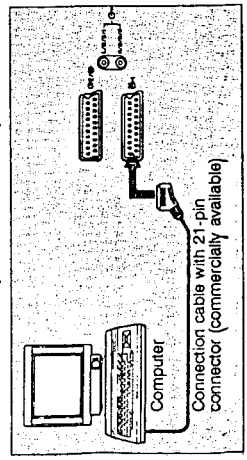
## Connection of a TV set



## Connection of an audio unit

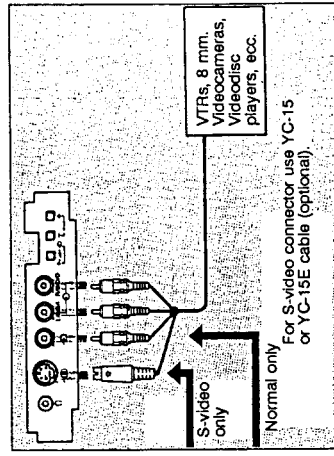


## Connection to a computer with RGB output



## Temporary connection of video apparatus

For a temporary connection (e.g. of a videocamera) use the front panel terminals.



## Connection of a video taperecorder through the T connector

Connect the antenna input (AERIAL-IN) of the TV set to the antenna output (AERIAL-OUT) of the video taperecorder.

## S-video input (Y/C input)

The video signal is formed by two separate signals: the luminance (Y) and the chrominance (C). Through the separation of the two signals it is possible to improve picture quality (luminance in particular), preventing reciprocal interferences. This TV set features two S-video sockets able to directly receive this type of signal.

## Pictures with distortion

Move the TV set away from the video taperecorder if pictures or sound become distorted.

## Video programme playback

Using the input selector, pictures coming from a video taperecorder connected to the TV sets input, may be played back.

### Operation

Operation	Result
Select the desired video input by pressing 1	The symbol of the selected input appears on the screen (see table hereunder).
Press 0 button to revert to TV mode.	

### Selectable inputs

Symbol	Selected input
1	Audio/video signal from 1 connector.
2	RGB signal from 1 connector.
3	Audio/video signal from 2/3 connector.
4	S-video signal (from a VTR with S-video output) from 2/3 connector.
5	Audio/video signal from 5, 6 connector located on the front panel.
6	S-video signal from S-video 6 (4 pin) connector located on the front panel.
Input can be selected also with P, Q, R buttons of the TV set.	
In this case, first select 5, and then press the + / - buttons to select the desired input.	

## Selection of video output from a 2/3 connector

The 2/3 connector may output 4 video signals. Select the outgoing video signal in the following way.

### Operation

Operation	Result
Press 2 repeatedly to select the desired video input.	The selected video input symbol appears on the screen (see the table following).

### Output signal

Symbol	Selected output
1	Audio/video signal from 1 connector.
2	Audio/video signal from 2/3 connector.
3	Audio/video signal from 5 and 6 connectors.
TV	Audio/video signal from T-type antenna connector T.

## Use of the programmable remote control unit

This section explains the use of the remote control unit (supplied) for other audio/video apparatus.

The supplied remote control unit allows you to control Sony video units from a distance. The same remote control unit may be programmed to execute the same function also with other makers set.

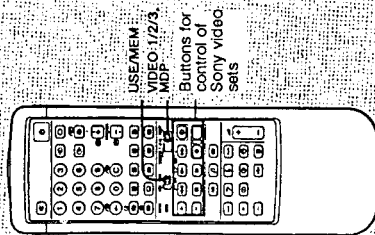
### Remote control on Sony video sets, without programming the supplied remote control unit

Through the VIDEO 1/2/3, MDP selector button, video apparatus made by Sony (such as Betamax VTRs, 8 mm. VTRs, VHS VTRs and videodisc players) may be controlled from a distance.

<b>1</b>	Select position USE	USE MEM
<b>2</b>	With the VIDEO 1/2/3MDP selector button select the position corresponding to the Sony set you wish to control. Positions are as follows: VIDEO 1: Sony Betamax, or Betamax ED VTRs VIDEO 2: Sony 8 mm. VTRs VIDEO 3: Sony VHS VTRs MDP: Sony videodisc players	VIDEO 1-2-3 MDP
<b>3</b>	For remote control of video sets use buttons shown in the illustration.	

#### Note

- If the VTR is being used has a COMMAND MODE selector, it is necessary to select, with this selector, the same position of the VIDEO 1/2/3, MDP selector of the supplied remote control unit.
- Buttons of the remote control unit correspond to functions not available on the VTR, cannot be activated.



## Storing signals of other remote control units

Buttons shown in the following illustration may memorize the corresponding functions of other remote control unit.

Up to four functions may be memorized, by associating them with the VIDEO 1/2/3, MDP selector button, to only one button of the remote control unit supplied with the TV set.

<b>1</b>	Select the desired position with the VIDEO 1/2/3, MDP selector button.	VIDEO 1-2-3 MDP
<b>2</b>	Select the position MEM with the mode selector.	USE MEM
<b>3</b>	Put the remote control unit of the other set in front of the supplied remote control unit.  about 5 cm	
<b>4</b>	On the supplied remote control unit press the button corresponding to the function which has to be memorized. The MEM indication lights up.	MEM
<b>5</b>	<b>Note</b> When the ● button is used, be sure to press it simultaneously with the button on the right side. Press on the remote control unit the button corresponding to the function which has to be memorized. At the end of the memorization process the MEM indication goes off.	MEM
<b>6</b>	To memorize other functions repeat steps 3 to 5 of this procedure.	
<b>7</b>	At the end of the procedure, select position USE for the supplied remote control unit.	USE MEM

For efficient operation the two remote control units shall be positioned in the following way:

- one in front of the other,
- at an approximate distance of about 5 cm
- completely still during the memorizing operation.

#### After programming

Check that the video set exactly follows the memorized commands.

#### In case of incomplete memorization

The MEM indicator will flash. Repeat the procedure starting from step 3.

Insertion of a new command in an already memorized button





The previously memorized function will be replaced automatically.

#### Note on programming

Functions of non-Sony remote control units can be memorized only if these units make use of infrared signals. It may happen that certain particular functions of non-Sony remote control units cannot be memorized.

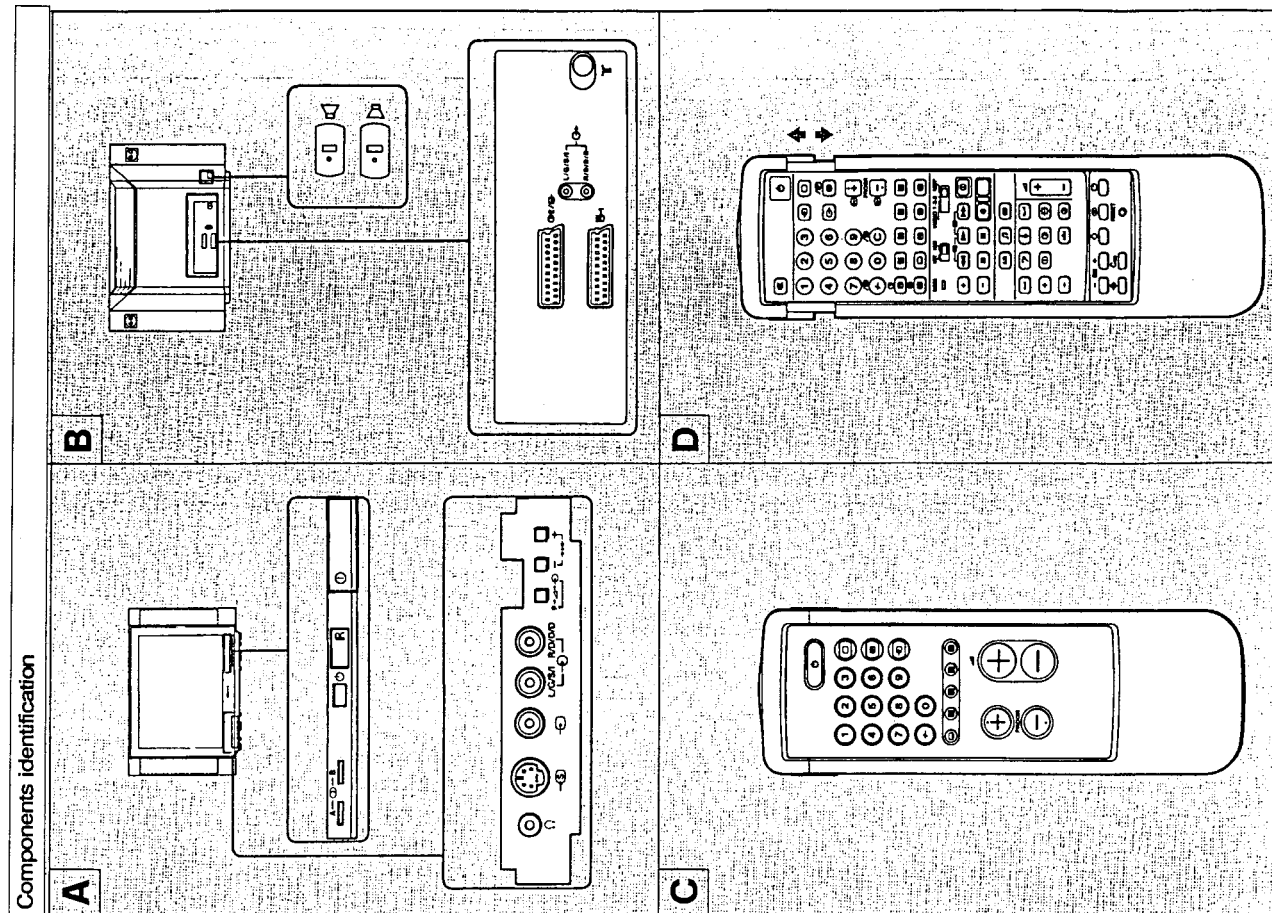
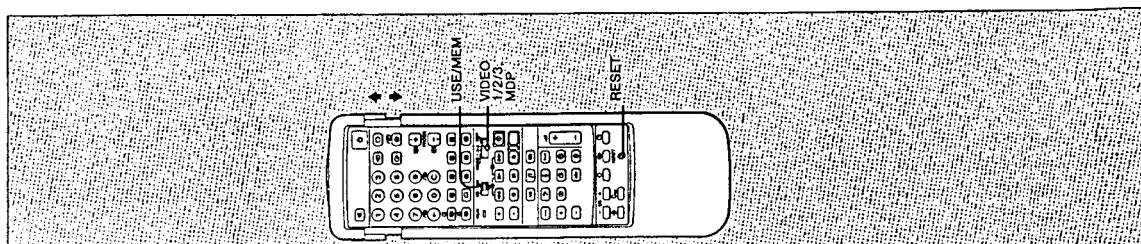


# General information

Cancel of programmed functions		
<b>1</b>	With the VIDEO 1/2/3, MDP selector, select the position corresponding to the functions that have to be cancelled.	
<b>2</b>	Select MEM position on the mode selector.	
<b>3</b>	Press the RESET button with the point of a pen, or similar.	
<b>4</b>	Once the cancel process has been performed, select the USE position on the mode selector.	

## Note

- Instructions memorized in one single button cannot be cancelled.
- After the programmed functions have been cancelled, functions for controlling Sorry video apparatus are still available.





This section briefly describes controls of the TV set and the remote control unit, and their relevant functions. For further details see the page shown on the right side of each description.

A TV set front panel		
Indication	Description	
	Power switch	
	Standby switch	
A-O-B	Bilingual function indications	
	Headphones connector (stereo mini-jack)	
	Input connectors (S-video/video/audio)	
	Function selector (programme/volume/input)	
	Function adjustment keys	

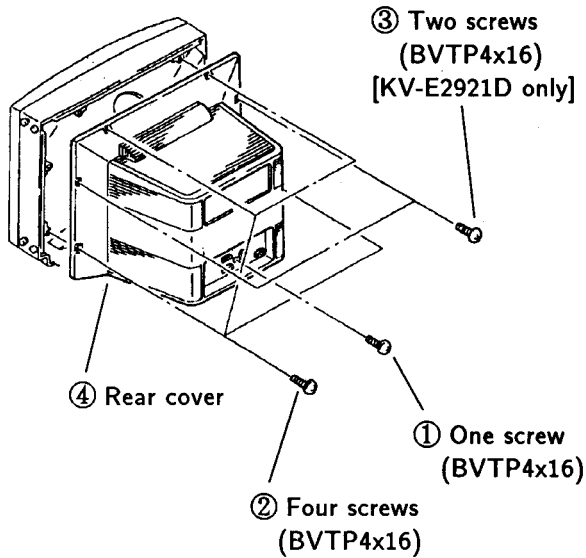
B TV set rear panel		
Indication	Description	
	Speaker connectors (upper: left speaker; lower: right speaker)	
	Connector 2, Euro AV (SCART, 21-pin). S-video in/video in/TV/video out signals.	
	Connector 1, Euro AV (SCART, 21-pin). RGB in/video in/TV/out signals.	
	Audio output connectors (RCA pin)	
	Antenna connector (of IEC standard)	

C Remote control unit — simplified side		
Indication	Description	
	Input selector	
	Teletext service key	
	TV set power switch and TV mode selector	
	Standby key	
1,2,3,4,5,6,7,8,9,0	Number keys	
-/-	Channel selection key/2-figure programmes	
	Volume adjustment key	
PROGR +/-	Programme selection key	

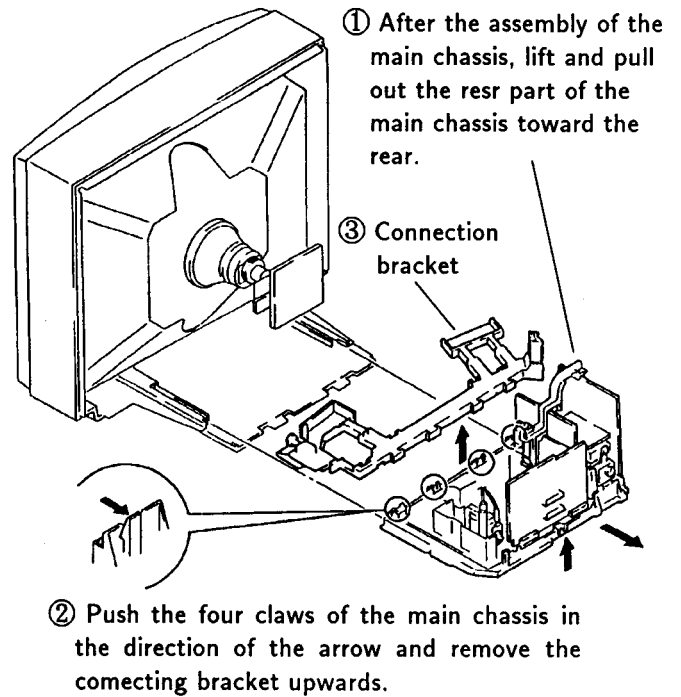
D Remote control unit — complete side		
Indication	Description	
	Sound muting key	
	Standby key	
1,2,3,4,5,6,7,8,9,0	Number keys	
	Input selector	
	TV set power switch and TV mode selector	
	Output selector	
	Teletext key	
	Music programme key	
A/B	Bilingual programmes language selection	
-/-	Channel selection key/2-figure programmes	
C	Channel direct selection key	
	Special sound effect key	
	Time display	
	Teletext operation keys	
	Display key	
	Reset key	
	Volume adjustment keys	
PROGR +/-	Programme selection keys	
	Image and audio adjustment keys	
MEM	MEM light indication	
USE/MEM	Normal/programme mode selector	
VIDEO 1/2/3, MDP	Video unit selector	
	Video units function key	
	Programme cancelling key	
	Channel presetting key	
	Channel tuning keys	
	Channel storing keys	
	Broadcasting stations identification key	
RESET	Cancel key	

## SECTION 2 DISASSEMBLY

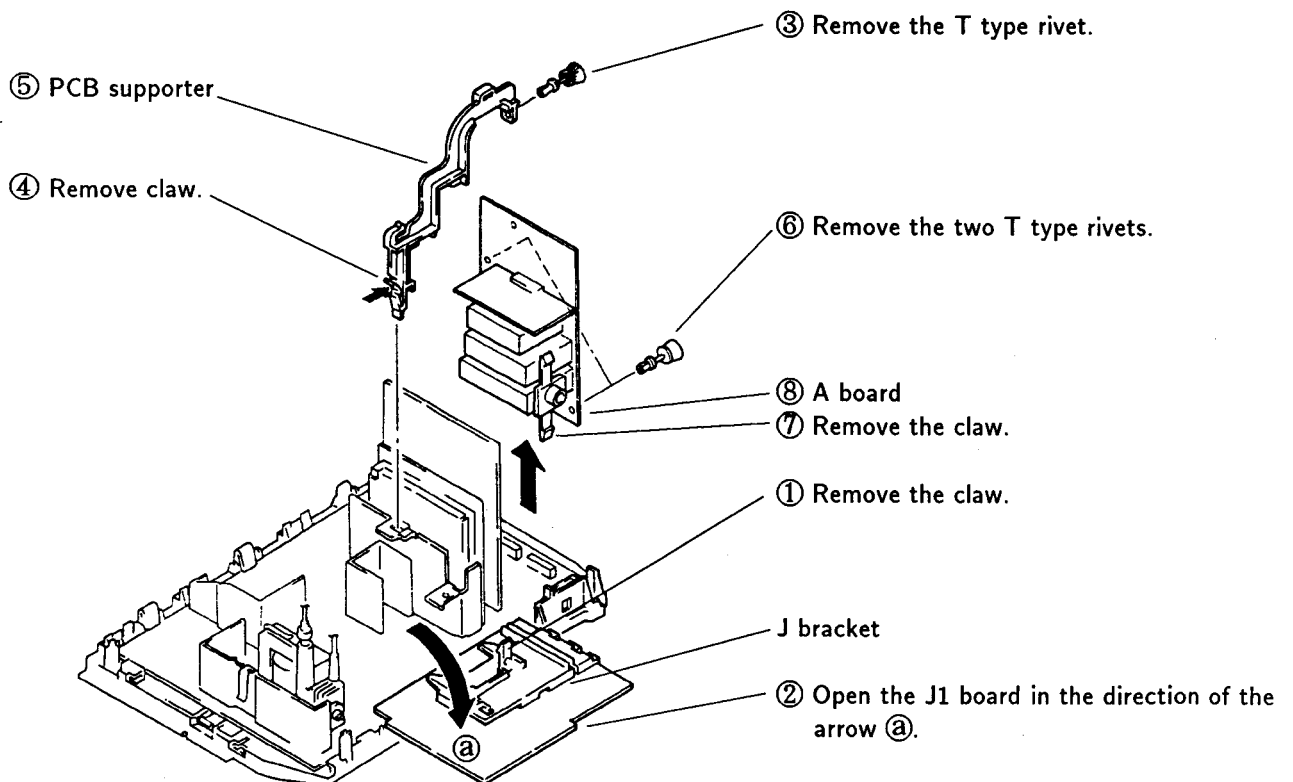
### 2-1. REAR COVER REMOVAL



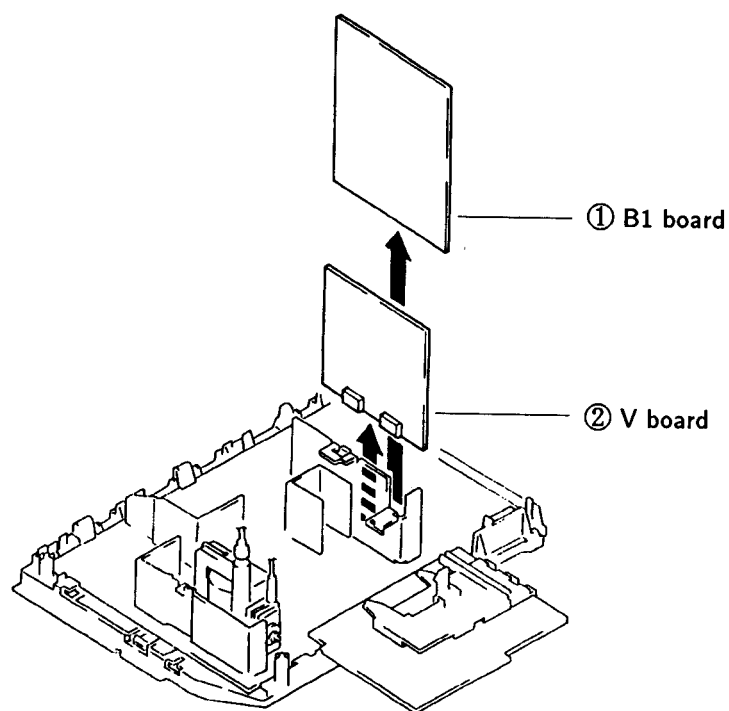
### 2-2. CHASSIS ASSEMBLY REMOVAL



### 2-3. A AND J1 BOARD REMOVAL

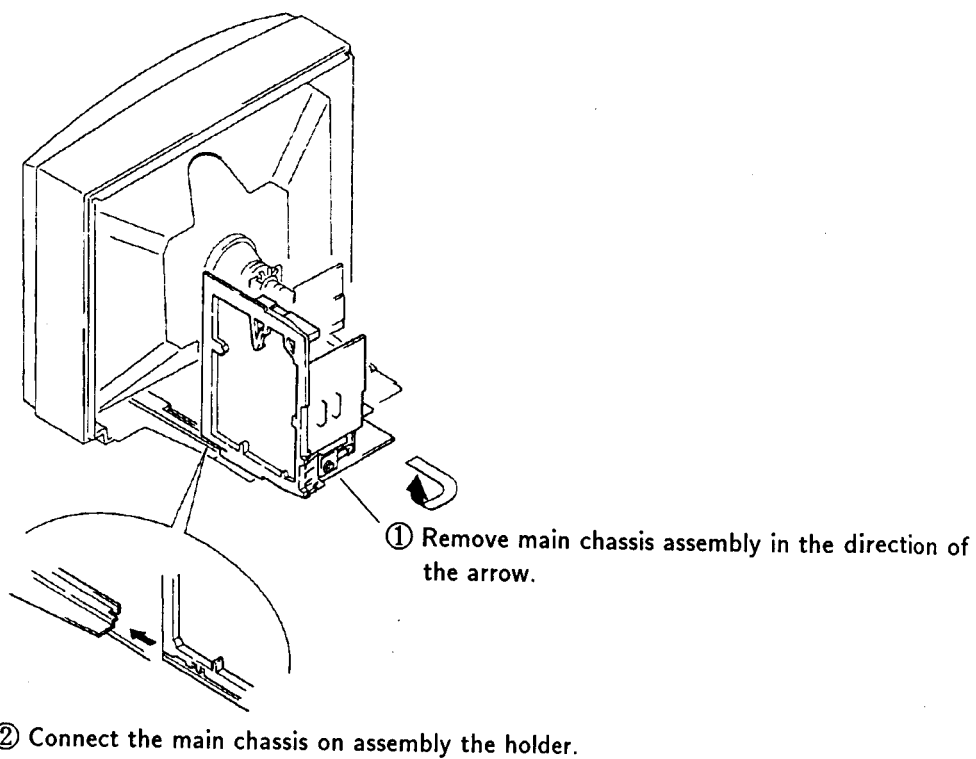


## 2-4. B1 AND V BOARDS REMOVAL

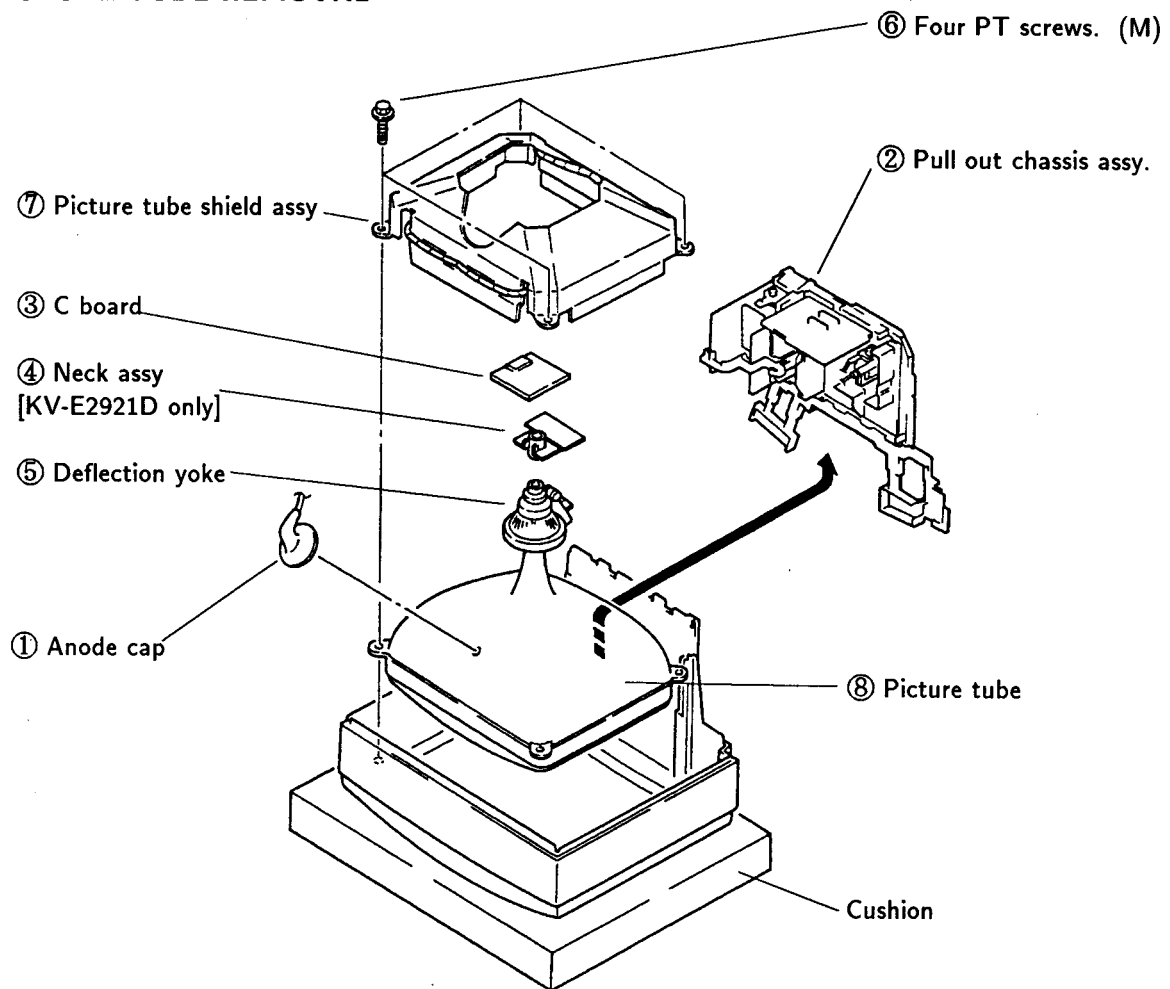


## 2-5. SERVICE POSITION

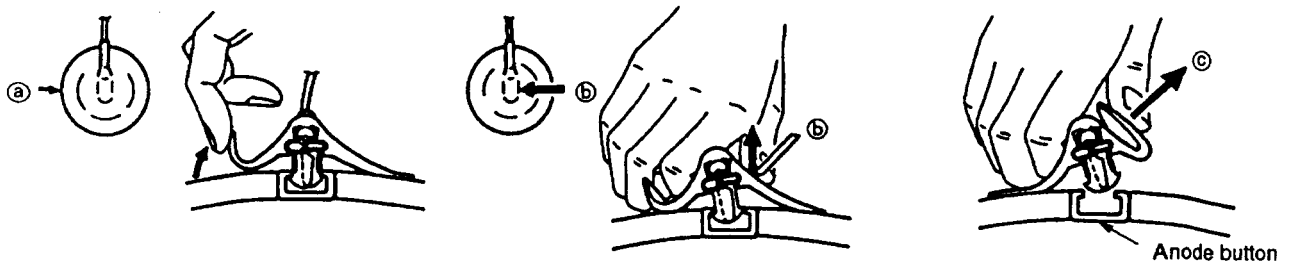
- \* Remove the connector bracket from the main chassis assembly and then perform the following servicing.  
(Refer to 2-2. CHASSIS ASSEMBLY REMOVAL.)



## 2-6. PICTURE TUBE REMOVAL



### • REMOVAL OF ANODE-CAP • REMOVING PROCEDURES

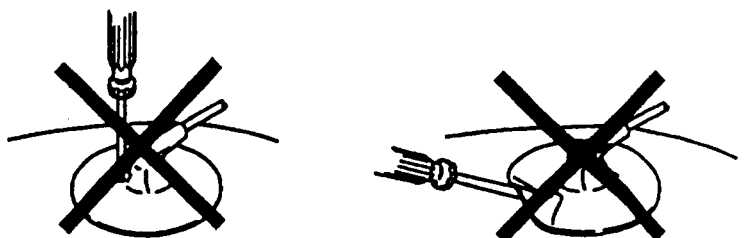


- ① Turn up one side of the rubber cap in the direction indicated by the arrow ㉑.
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ㉒.

- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ㉓.

### • HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!  
A material fitting called as shutter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!  
The shutter-hook terminal will stick out or hurt the rubber.



### SECITON 3

## SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way :
  - Contrast .....80%  
(or remote control normal)
  - ⚙ Brightness .....50%

- Carry out the following adjustments in this order:
  1. Beam landing
  2. Convergence
  3. Focus
  4. White balance

**Note : Testing equipment required**

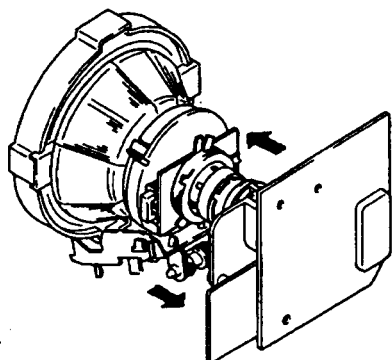
1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

### Preparations :

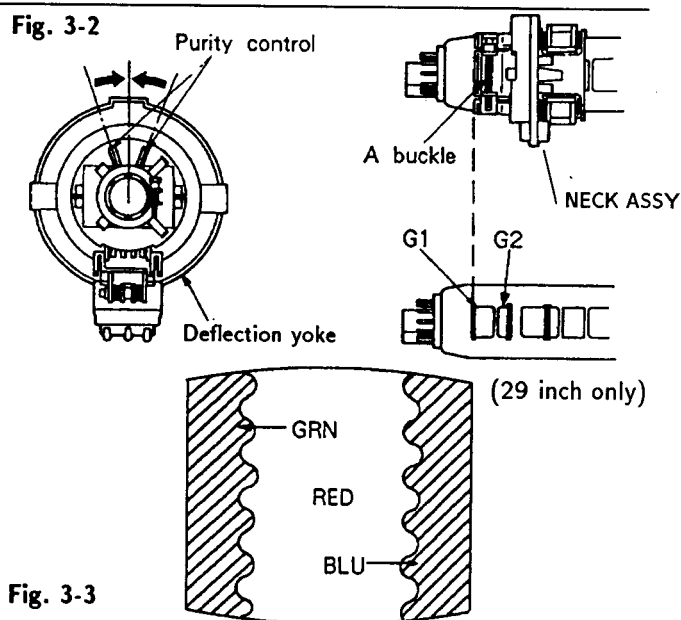
- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

### 3-1. BEAM LANDING

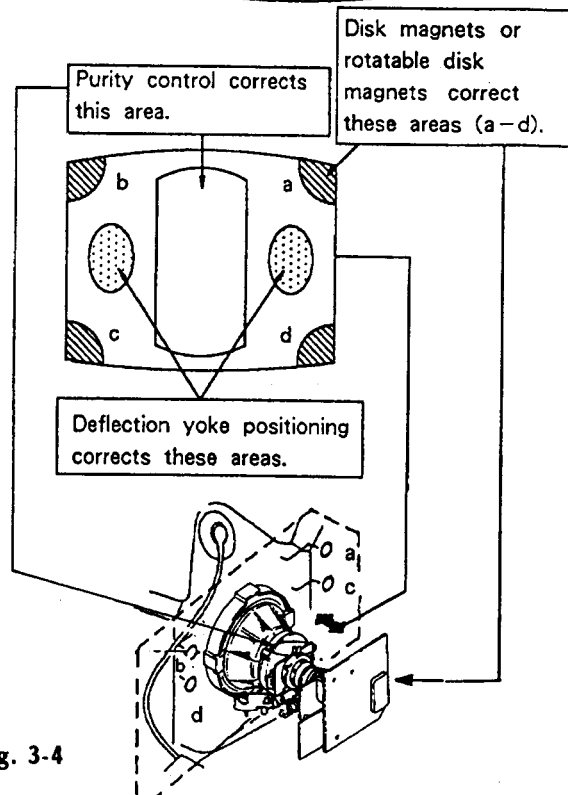
1. Input the white signal with the pattern generator.  
Contrast  
Brightness } normal
2. Position neck ass'y as shown in Fig 3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.  
(See Figures 3-1 through 3-3.)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Figure 3-1.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.  
(See Figure 3-4.)



**Fig. 3-1**



**Fig. 3-3**



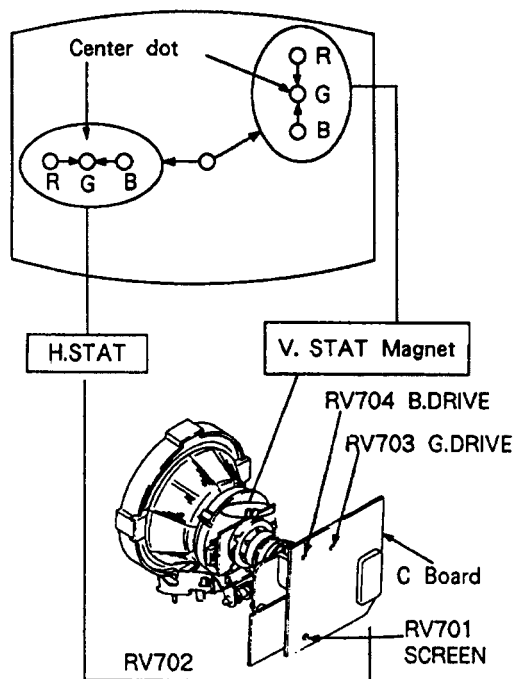
**Fig. 3-4**

### 3-2. CONVERGENCE

#### Preparations :

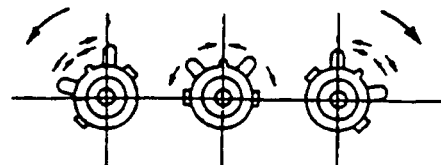
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

#### (1) Horizontal and vertical static convergence

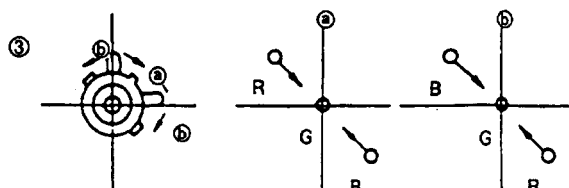
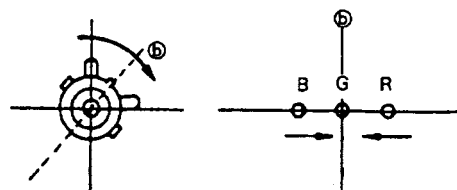
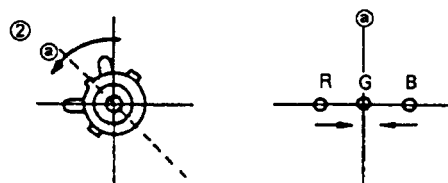
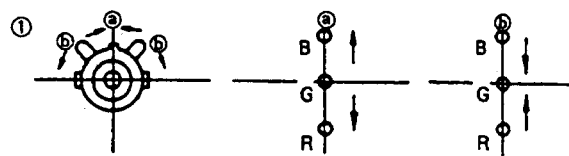


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below. (In this case, the H.STAT variable resistor and the V. STAT magnet influence each other)

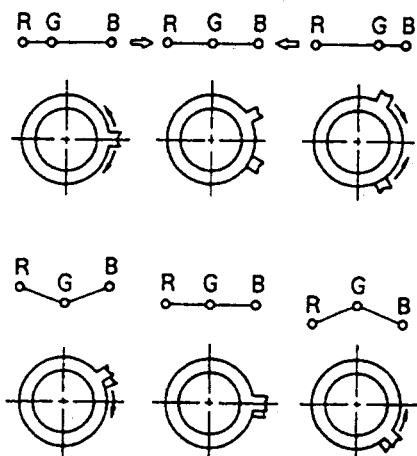
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



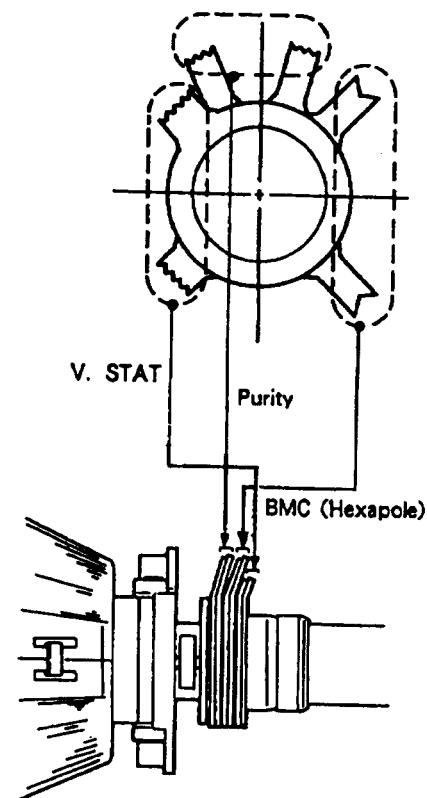
4. If the V.STAT magnet is moved in the direction of the ② and ③ arrows, the red, green, and blue points move as shown below.



● Operation of BMC (Hexapole) Magnet



- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.  
Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).



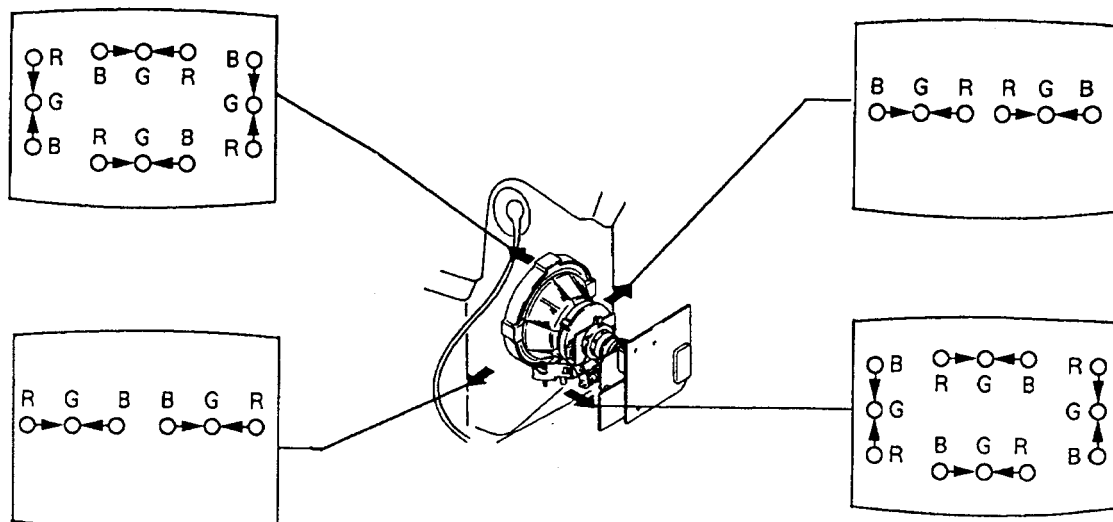
**(2) Dynamic convergence adjustment**

**Preparations :**

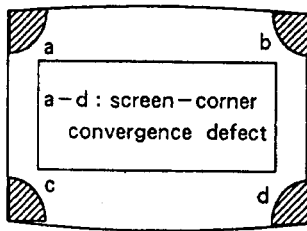
Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

1. Slightly loosen the deflection yoke screws.
2. Remove the deflection yoke spacer.

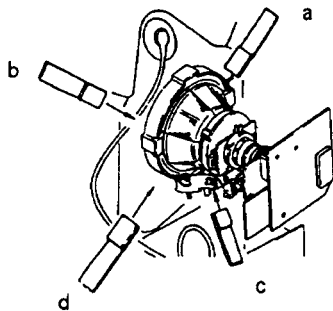
3. Move the deflection yoke as shown in the figure below and optimize the convergence.
4. Tighten the deflection yoke screws.
5. Install the deflection yoke spacer.



### (3) Screen corner convergence



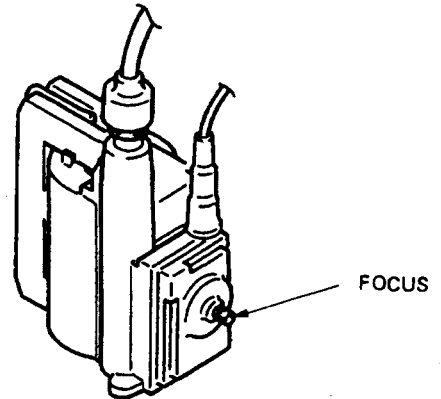
Install the permalloy assembly for the section with faulty.



Permalloy

### 3-3. FOCUS

Adjust the focus to optimize the screen.



### 3-4. WHITE BALANCE

#### [ Screen G2 setting ]

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 170V DC to the R, G, and B cathodes with an external power supply.
4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

#### [ White balance adjustment ]

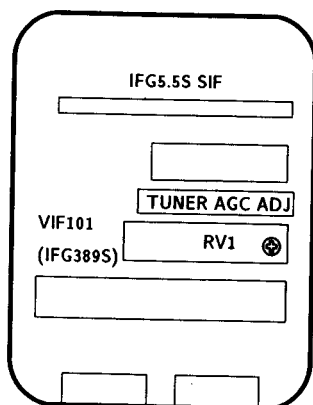
1. Input an all-white signal from the pattern generator.
2. Set the picture brightness and color controls to their normal levels.
3. Use the RV704 (B Drive) and RV703 (G Drive) to adjust white balance.

In the adjustments below, have the picture color and brightness settings at their normal levels unless there is a specific instruction to the contrary.



## SECTION 4 CIRCUIT ADJUSTMENTS

### 4-1. A BOARD ADJUSTMENTS

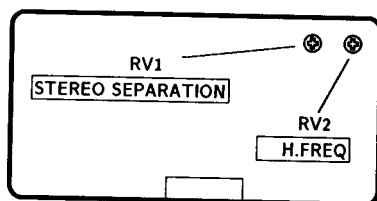


A BOARD (COMPONENT SIDE)

#### TUNER AGC ADJUSTMENT (VIF101, RV1)

1. Align with an appropriate signal between stations.
2. Adjust RV1 so that snow noise and cross modulation just disappear from the picture.

#### IFG5.5S SIF



IFG5.5S SIF -component side-

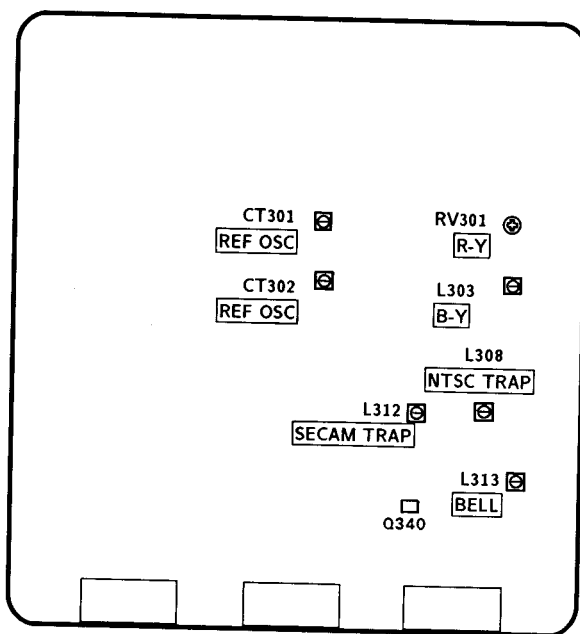
#### STEREO SEPALATION ADJUSTMENT (RV1)

1. Input a STEREO signals. (L-CH 400Hz, R-CH 1KHz)
2. Check the stereo indicator.
3. Connect on oscilloscope to pin ⑧ (CH1) of CN1 through band pass filter of 1KHz
4. Adjust RV1 so that 1KHz voltage goes down to the minnum.

#### H FREQ (RV2)

1. Input a PAL color bar signal, then connect a jumper between pin ⑫ IC4 and GND.
2. Connect a frequency counter to pin ④ IFG5.5S (HP) of CN1 through a probe of 10 : 1.
3. Adjust RV2 (H.FREQ)  $15.625 \pm 50\text{Hz}$ .
4. After adjustment, remove the jumper.

### 4-2. B1 BOARD ADJUSTMENTS



B1 BOARD (COMPONENT SIDE)

#### REFERENCE OSCILLATOR ADJUSTMENT (CT302 8.8MHz)

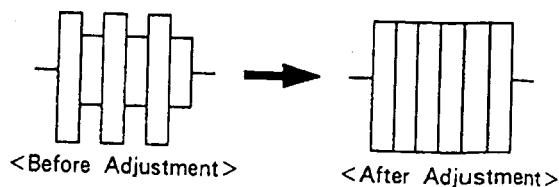
1. Input a PAL color bar signal.
2. Ground pin ⑰ of the IC304.
3. Adjust CT302 to obtain synchronization.

#### REFERENCE OSCILLATOR ADJUSTMENT (CT301 7.16MHz)

1. Input an NTSC color bar signal.
2. Ground pin ⑰ of IC304.
3. Adjust the CT301 to obtain synchronization.
4. Remove the jumper grounding pin ⑰ of IC304.

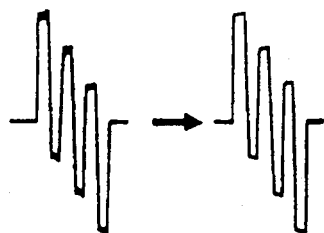
#### BELL FILTER ADJUSTMENT (L313)

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to the emitter of Q344.
3. Adjust L313 so that the waveform is flat.



### 1H DELAY LINE ADJUSTMENT (L303, RV301)

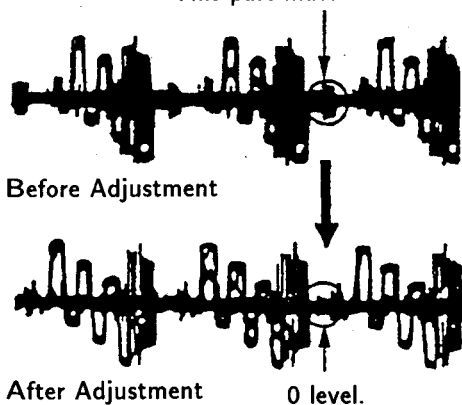
1. Input a PAL color bar signal.
2. Connect the oscilloscope to pin ③ (B-Y) of IC304 and observe the waveform of the H block on the oscilloscope.
3. Adjust L303 to minimize the double waveform outline.



Before Adjustment      After Adjustment

4. Input a PAL test color bar signal.
5. Rotate the RV301 and adjust till the ANTI-PAL part of the waveform matches the 0 level.

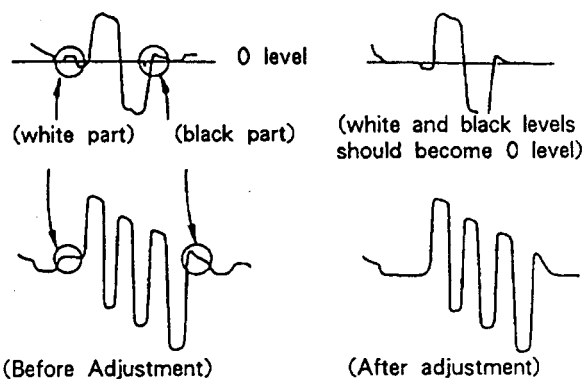
This part matches 0 level.



6. L303 and RV301 affect each other, Repeat till the conditions of both met.

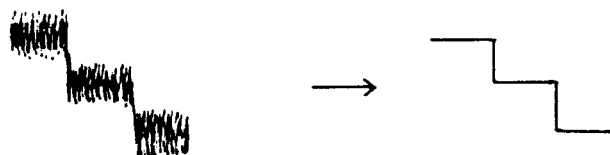
### DISCRIMINATION ADJUSTMENT (RV301 and L303)

1. Input a SECAM color bar signal.
2. Connect the oscilloscope to pin ① of IC304.
3. Adjust RV301 until the white and black sections of the waveform at pin ① are at the 0 level.
4. Connect the oscilloscope to pin ③ of IC304.
5. Adjust L303 until the white and black sections of the waveform at pin ③ are at the 0 level.



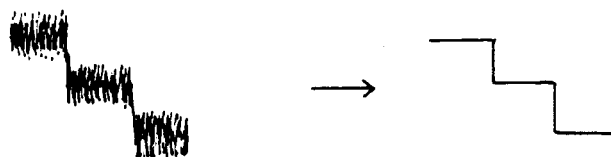
### SECAM TRAP (L312)

1. Input a SECAM color bar signal.
2. Connect oscilloscope to Q340 emitter and adjust L312 to minimize color carrier on the Y-signal.

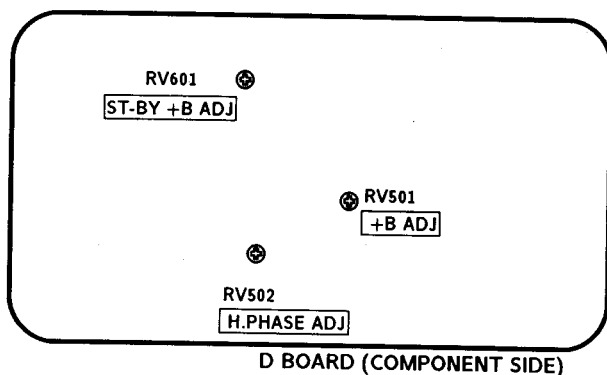


### NTSC TRAP (L308)

1. Input a NTSC (3.58) color bar signal.
2. Connect oscilloscope to Q340 emitter and adjust L308 to minimize color carrier on the Y-signal.



### 4-3. D BOARD ADJUSTMENTS



#### **+B ADJUSTMENT (RV501)**

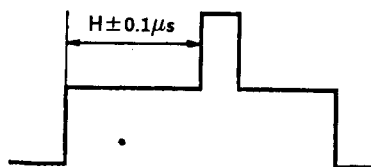
1. Connect the digital multimeter to TP91.
2. Adjust RV501 to obtain  $135 \pm 0.2V$ .

#### **ST-BY +B ADJUSTMENT (RV601)**

1. Put the system into  $\text{⏻}$  standby mode (remote commander).
2. Connect the digital multimeter to TP91.
3. Adjust RV601 to obtain  $135 \pm 3V$ .
4. Take the system out of  $\text{⏻}$  standby mode (remote commander).

#### **H.PHASE ADJUSTMENT (RV502)**

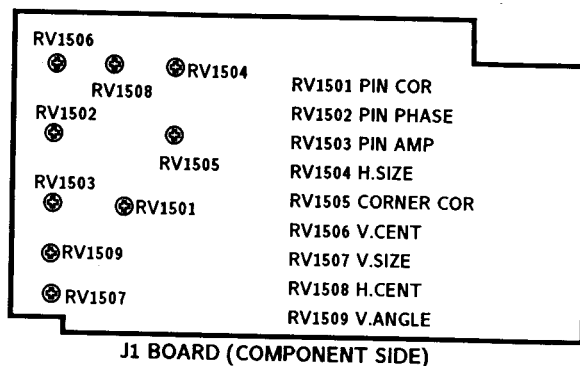
1. Input a PAL color bar signal.
2. Set the picture and brightness controls to their normal levels.
3. Set RV1508 (H.CENT) to its mechanical center.
4. Connect the oscilloscope to pin ⑪ (SCP) of IC 501.
5. Rotate RV502 to adjust to  $H \pm 0.1\mu s$ .



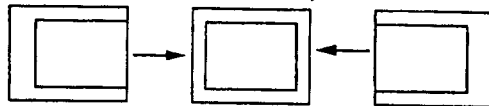
Standard of H. PHASE

Model Size	H
25 "	$5.1\mu s$
29 "	$5.5\mu s$

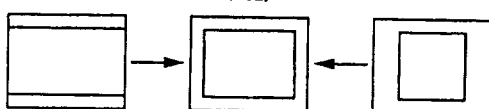
### 4-4. J1 BOARD ADJUSTMENTS



RV1508  
H. CENT (HORIZONTAL CENTER)



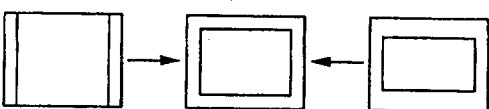
RV1504  
H. SIZE (HORIZONTAL SIZE)



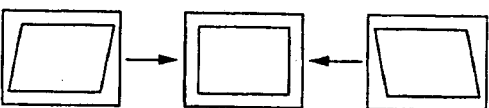
RV1506  
V. CENT (VERTICAL CENTER)



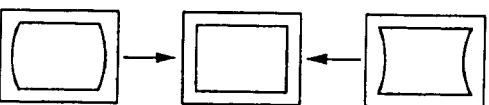
RV1507  
V. SIZE (VERTICAL SIZE)



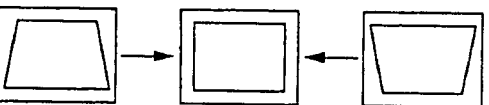
RV1509  
V. ANGLE (VERTICAL ANGLE)



RV1503  
PIN AMP (PINCUSHION AMPLIFIER)



RV1502  
PIN PHASE (PINCUSHION PHASE)



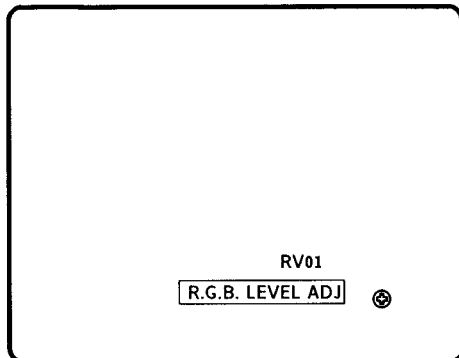
RV1501  
PIN. COR (PINCUSHION CORRECT)



RV1505  
CORNER COR (CORNER CORRECT)



#### 4-5. V BOARD ADJUSTMENTS



V BOARD (COMPONENT SIDE)

##### **RGB LEVEL ADJUSTMENT (RV01)**

1. Maximize the picture setting.
2. Adjust RV01 so that the RGB output is 0.75V.

#### 4-6. SECONDARY ADJUSTMENTS

##### **SUB BRIGHTNESS ADJUSTMENT**

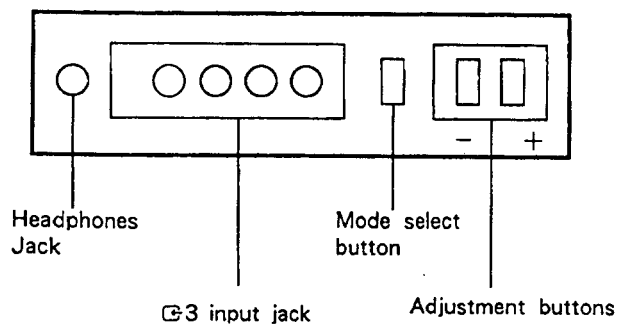
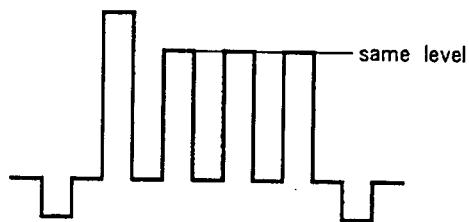
1. Set the system to receive a test pattern.
2. Press  $\rightarrow \bullet \leftarrow$  on the remote commander to put the system into normal mode.
3. Switch off the power.
4. While depressing the adjusting buttons + and - simultaneously, turn on the power. (SUB mode is obtained)
5. Minimize the  $\bullet$  contrast setting.
6. Adjust the  $\odot$  brightness control so that the gray scale 0 IRE section is cut off completely and the 20 IRE section is barely glowing.
7. Depress the  $\diamond$  (store) button of the remote commander.  
(SUB mode is released)

If there is no test color pattern

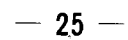
1. Set the system to receive a color pattern.
2. Press  $\rightarrow \bullet \leftarrow$  on the remote commander to put the system into normal mode.  
Set the  $\odot$  color to its normal state.
- 3-5. Steps are the same as above.
6. Since 20 IRE is nearly blue, adjust the  $\odot$  brightness control so that the blue barely glows.
7. Same as step 7 above.
8. Press  $\rightarrow \bullet \leftarrow$  on the remote commander to put the system into normal mode.

### SUB COLOR ADJUSTMENT

1. Set the system to receive color bars.
2. Press  $\rightarrow \bullet \leftarrow$  on the remote commander to put the system into normal mode.
3. Cut off the power.
4. While depressing the adjustment buttons + and - simultaneously, turn on the power. (SUB mode is obtained).
5. Adjust the color control so that the B out waveform (pin ⑤ of C board connector CNC72) is as shown in the figure below.
6. Depress the  $\diamond$  (store) button of the remote commander. (SUB mode is released)

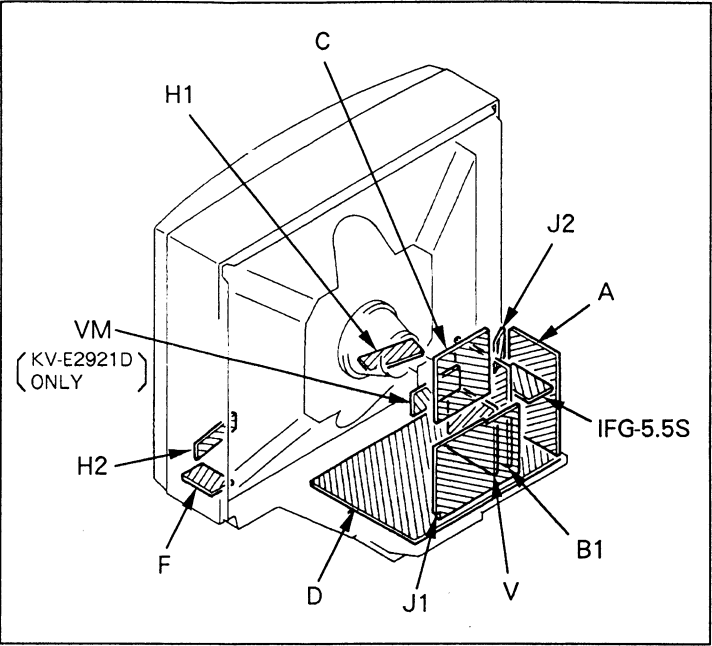


### 5-1. BLOCK DIAGRAM (1)






5-2. CIRCUIT BOARDS LOCATION








5-3. SCHEMATIC DIAGRAM AND PRINTED WIRING BOARDS

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note :

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  
pF:  $\mu\text{pF}$  50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm  
Rating electrical power : 1/4W

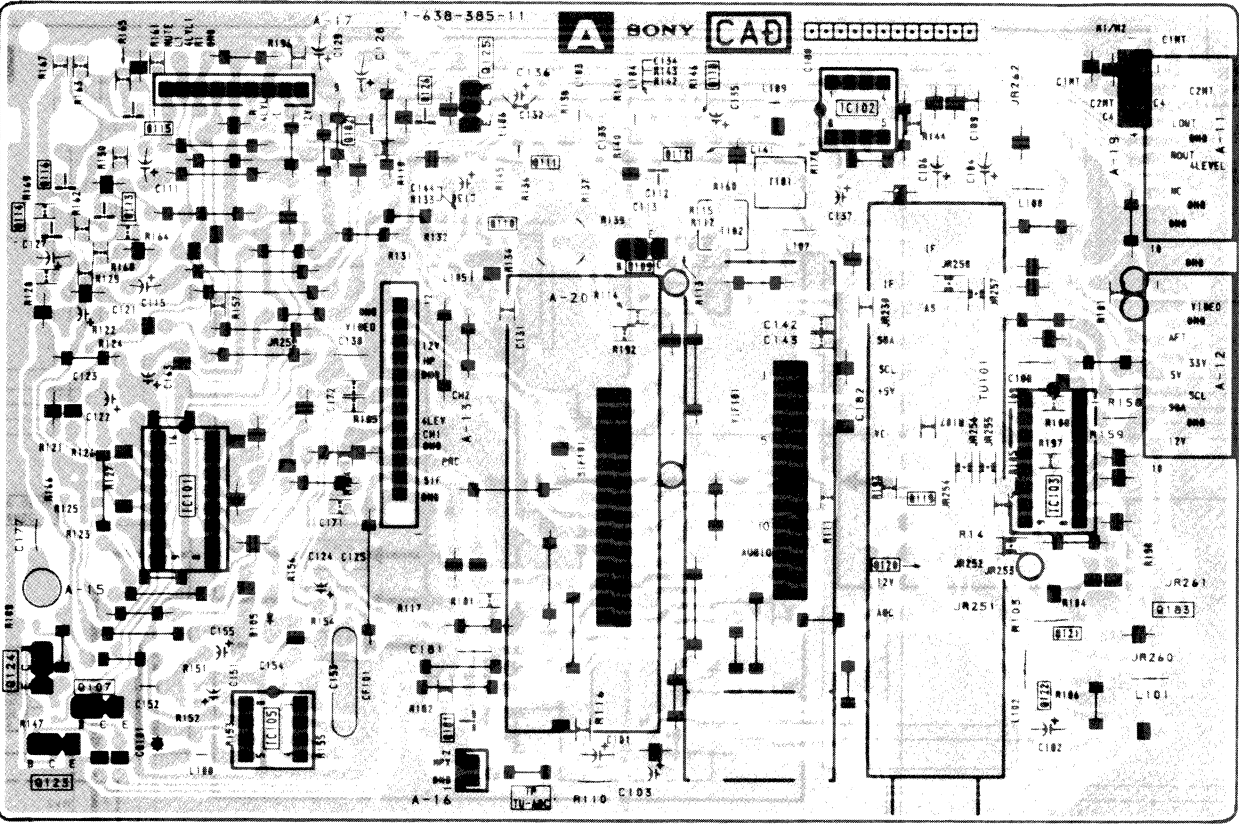
- Chip resistor is in 1/10W.
- All resistors are in ohms.  $k\Omega = 1000\Omega$ ,  $M\Omega = 1000k\Omega$
-  : nonflammable resistor.
-  : fusible resistor.
- $\triangle$  : internal component.
-  : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a  $10M\Omega$  digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
-  : B + line.
-  : signal path. (RF)

Reference information

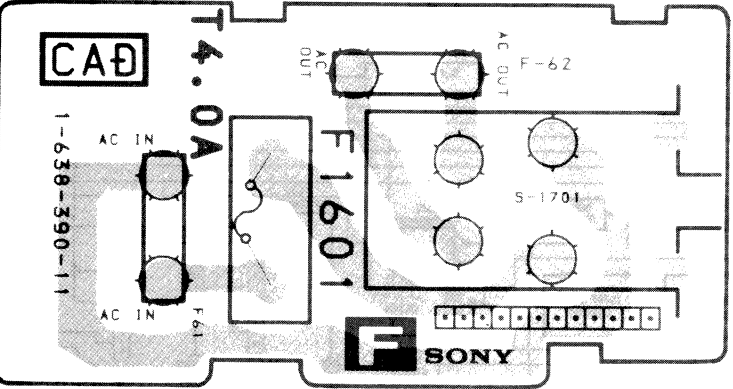
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: *	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

**A** [TUNER, SIF, VIF] **F** [AC IN, POWER SW] **J1** [AUDIO CONTROL, AV INPUT, Y/C INPUT, SCART VIDEO OUT, EAST-WEST CORRECTION] **J2** [SPEAKER TERMINAL] **VM** [V]

-A BOARD-



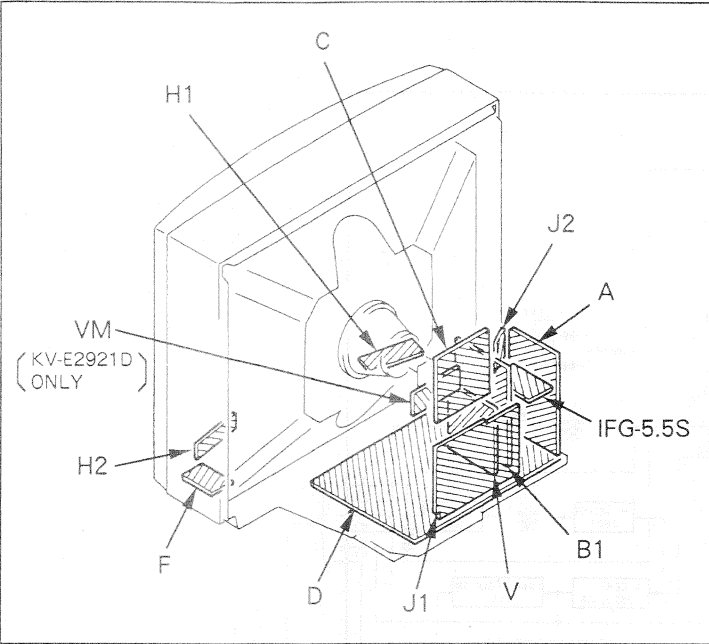
-F BOARD-




30



5-2. CIRCUIT BOARDS LOCATION








5-3. SCHEMATIC DIAGRAM AND PRINTED WIRING BOARDS

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note :

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  
pF:  $\mu\text{F}$  50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm  
Rating electrical power: 1/4W

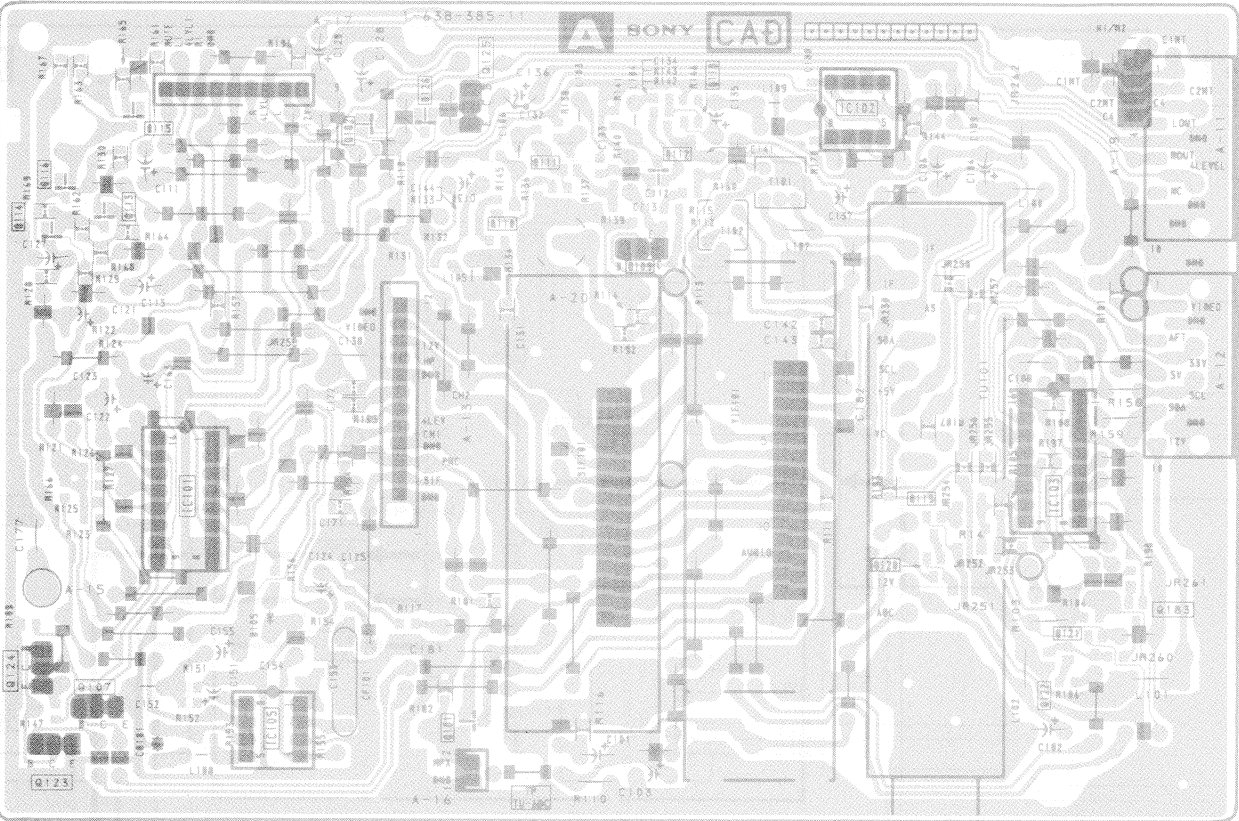
- Chip resistor is in 1/10W.
- All resistors are in ohms.  $k\Omega = 1000\Omega$ ,  $M\Omega = 1000k\Omega$
-  : nonflammable resistor.
-  : fusible resistor.
- $\triangle$  : internal component.
-  : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a  $10M\Omega$  digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
-  : B+ line.
-  : signal path. (RF)

Reference information

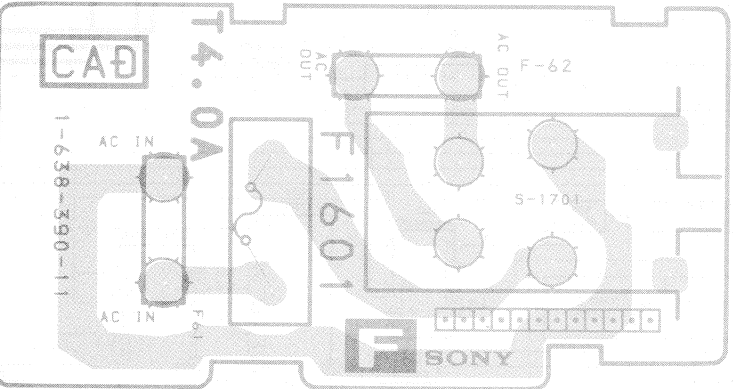
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: *	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

**A** [TUNER, SIF, VIF] **F** [AC IN, POWER SW] **J1** [AUDIO CONTROL, AV INPUT, Y/C INPUT, SCART VIDEO OUT, EAST-WEST CORRECTION] **J2** [SPEAKER TERMINAL] **VM** [V.C. MOTOR]

—A BOARD—

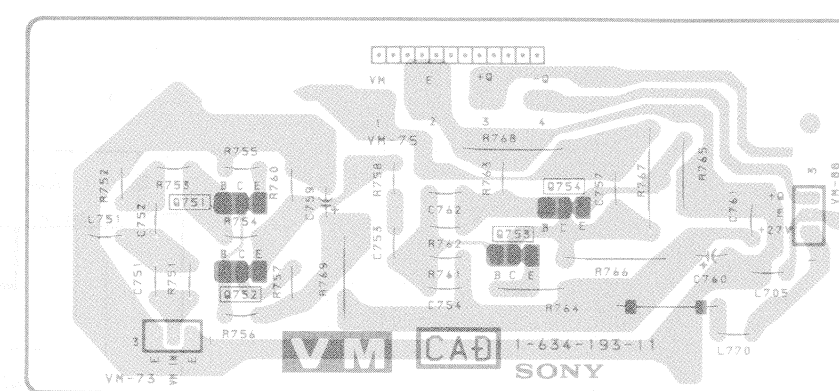


—F BOARD—



[ SIRCS, RECEIVER, ]  
[ INDICATOR ]

- VM BOARD - (KV-E2921D ONLY)



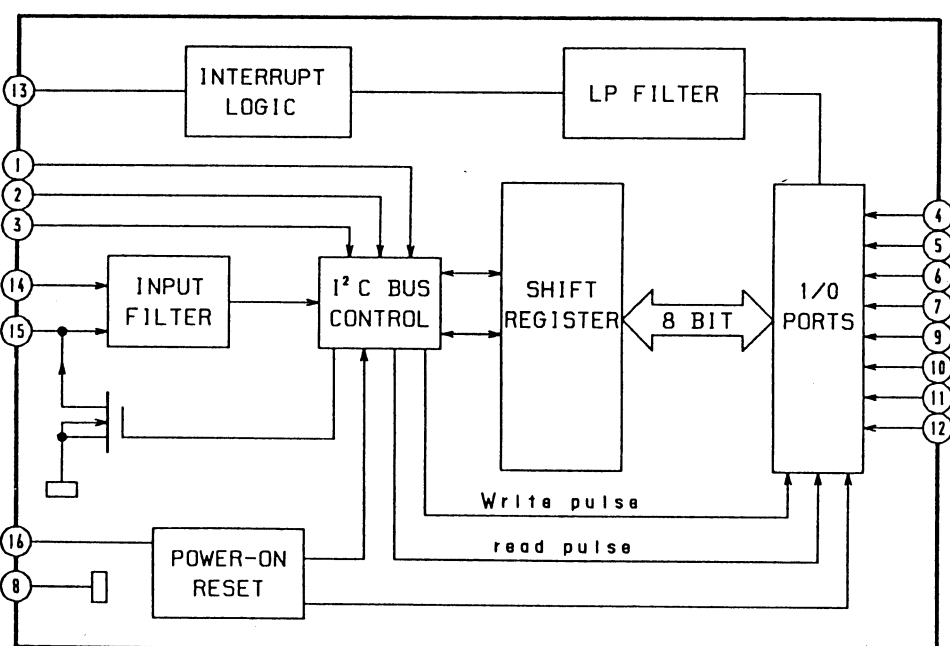
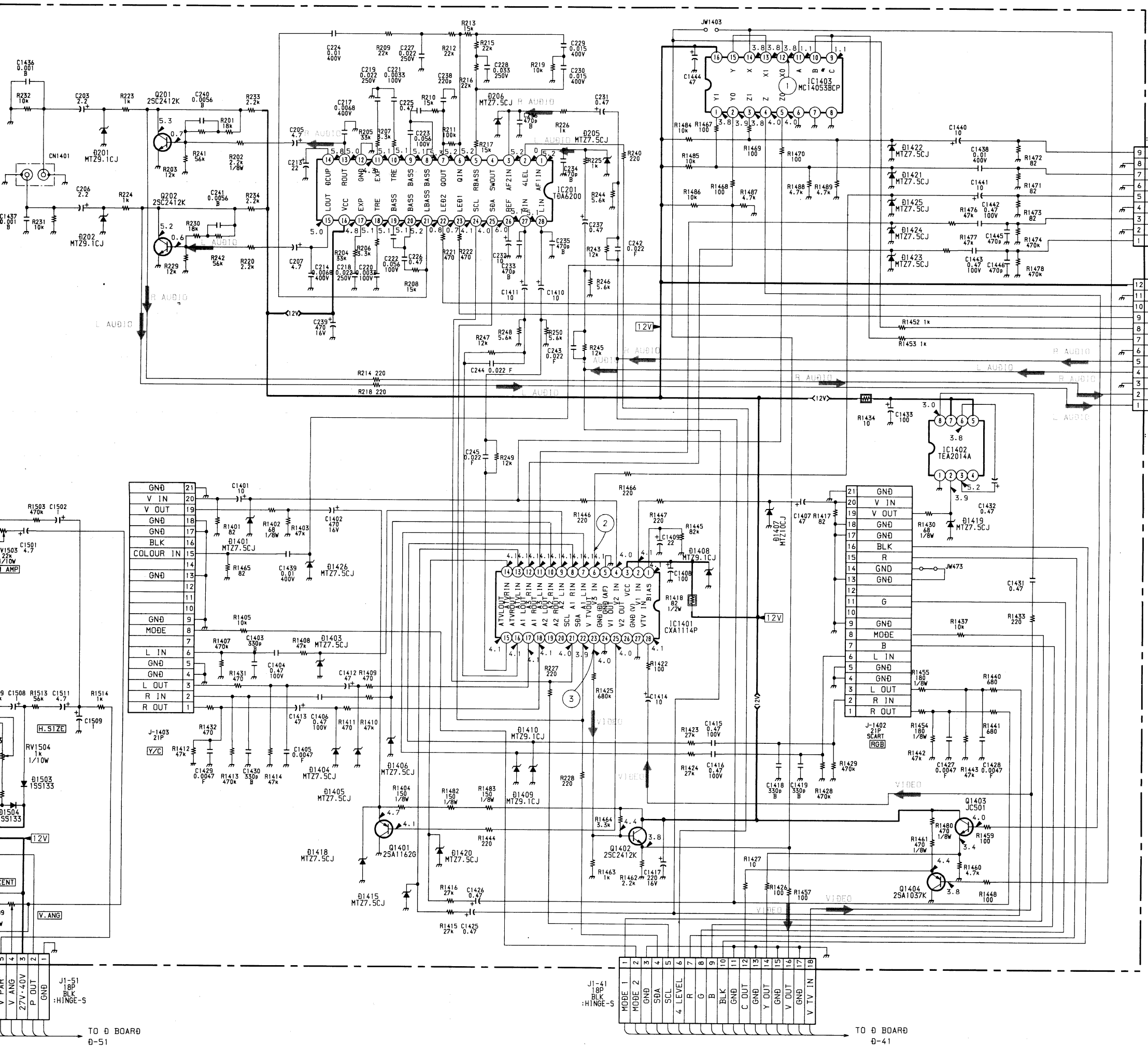
The schematic diagram illustrates the internal circuitry of the Sony H2 video camera. Key components include:

- IC1651:** A large integrated circuit on the left, with pins 1 and 2 labeled.
- H2:** A central component, likely a motor or actuator, with a lightning bolt symbol indicating a high-voltage connection.
- R1654, R1653, R1652, R1651:** Resistors connected to the H2 component and other parts of the circuit.
- R1662:** A resistor connected to the bottom right of the circuit.
- H2-2:** A component connected to the top right of the circuit.
- Capacitors:** Various capacitors are shown, including C1654, C1653, C1652, C1651, C1650, C1649, C1648, C1647, C1646, C1645, C1644, C1643, C1642, C1641, C1640, C1639, C1638, C1637, C1636, C1635, C1634, C1633, C1632, C1631, C1630, C1629, C1628, C1627, C1626, C1625, C1624, C1623, C1622, C1621, C1620, C1619, C1618, C1617, C1616, C1615, C1614, C1613, C1612, C1611, C1610, C1609, C1608, C1607, C1606, C1605, C1604, C1603, C1602, C1601, C1600, C1599, C1598, C1597, C1596, C1595, C1594, C1593, C1592, C1591, C1590, C1589, C1588, C1587, C1586, C1585, C1584, C1583, C1582, C1581, C1580, C1579, C1578, C1577, C1576, C1575, C1574, C1573, C1572, C1571, C1570, C1569, C1568, C1567, C1566, C1565, C1564, C1563, C1562, C1561, C1560, C1559, C1558, C1557, C1556, C1555, C1554, C1553, C1552, C1551, C1550, C1549, C1548, C1547, C1546, C1545, C1544, C1543, C1542, C1541, C1540, C1539, C1538, C1537, C1536, C1535, C1534, C1533, C1532, C1531, C1530, C1529, C1528, C1527, C1526, C1525, C1524, C1523, C1522, C1521, C1520, C1519, C1518, C1517, C1516, C1515, C1514, C1513, C1512, C1511, C1510, C1509, C1508, C1507, C1506, C1505, C1504, C1503, C1502, C1501, C1500, C1499, C1498, C1497, C1496, C1495, C1494, C1493, C1492, C1491, C1490, C1489, C1488, C1487, C1486, C1485, C1484, C1483, C1482, C1481, C1480, C1479, C1478, C1477, C1476, C1475, C1474, C1473, C1472, C1471, C1470, C1469, C1468, C1467, C1466, C1465, C1464, C1463, C1462, C1461, C1460, C1459, C1458, C1457, C1456, C1455, C1454, C1453, C1452, C1451, C1450, C1449, C1448, C1447, C1446, C1445, C1444, C1443, C1442, C1441, C1440, C1439, C1438, C1437, C1436, C1435, C1434, C1433, C1432, C1431, C1430, C1429, C1428, C1427, C1426, C1425, C1424, C1423, C1422, C1421, C1420, C1419, C1418, C1417, C1416, C1415, C1414, C1413, C1412, C1411, C1410, C1409, C1408, C1407, C1406, C1405, C1404, C1403, C1402, C1401, C1400, C1399, C1398, C1397, C1396, C1395, C1394, C1393, C1392, C1391, C1390, C1389, C1388, C1387, C1386, C1385, C1384, C1383, C1382, C1381, C1380, C1379, C1378, C1377, C1376, C1375, C1374, C1373, C1372, C1371, C1370, C1369, C1368, C1367, C1366, C1365, C1364, C1363, C1362, C1361, C1360, C1359, C1358, C1357, C1356, C1355, C1354, C1353, C1352, C1351, C1350, C1349, C1348, C1347, C1346, C1345, C1344, C1343, C1342, C1341, C1340, C1339, C1338, C1337, C1336, C1335, C1334, C1333, C1332, C1331, C1330, C1329, C1328, C1327, C1326, C1325, C1324, C1323, C1322, C1321, C1320, C1319, C1318, C1317, C1316, C1315, C1314, C1313, C1312, C1311, C1310, C1309, C1308, C1307, C1306, C1305, C1304, C1303, C1302, C1301, C1300, C1299, C1298, C1297, C1296, C1295, C1294, C1293, C1292, C1291, C1290, C1289, C1288, C1287, C1286, C1285, C1284, C1283, C1282, C1281, C1280, C1279, C1278, C1277, C1276, C1275, C1274, C1273, C1272, C1271, C1270, C1269, C1268, C1267, C1266, C1265, C1264, C1263, C1262, C1261, C1260, C1259, C1258, C1257, C1256, C1255, C1254, C1253, C1252, C1251, C1250, C1249, C1248, C1247, C1246, C1245, C1244, C1243, C1242, C1241, C1240, C1239, C1238, C1237, C1236, C1235, C1234, C1233, C1232, C1231, C1230, C1229, C1228, C1227, C1226, C1225, C1224, C1223, C1222, C1221, C1220, C1219, C1218, C1217, C1216, C1215, C1214, C1213, C1212, C1211, C1210, C1209, C1208, C1207, C1206, C1205, C1204, C1203, C1202, C1201, C1200, C1199, C1198, C1197, C1196, C1195, C1194, C1193, C1192, C1191, C1190, C1189, C1188, C1187, C1186, C1185, C1184, C1183, C1182, C1181, C1180, C1179, C1178, C1177, C1176, C1175, C1174, C1173, C1172, C1171, C1170, C1169, C1168, C1167, C1166, C1165, C1164, C1163, C1162, C1161, C1160, C1159, C1158, C1157, C1156, C1155, C1154, C1153, C1152, C1151, C1150, C1149, C1148, C1147, C1146, C1145, C1144, C1143, C1142, C1141, C1140, C1139, C1138, C1137, C1136, C1135, C1134, C1133, C1132, C1131, C1130, C1129, C1128, C1127, C1126, C1125, C1124, C1123, C1122, C1121, C1120, C1119, C1118, C1117, C1116, C1115, C1114, C1113, C1112, C1111, C1110, C1109, C1108, C1107, C1106, C1105, C1104, C1103, C1102, C1101, C1100, C1099, C1098, C1097, C1096, C1095, C1094, C1093, C1092, C1091, C1090, C1089, C1088, C1087, C1086, C1085, C1084, C1083, C1082, C1081, C1080, C1079, C1078, C1077, C1076, C1075, C1074, C1073, C1072, C1071, C1070, C1069, C1068, C1067, C1066, C1065, C1064, C1063, C1062, C1061, C1060, C1059, C1058, C1057, C1056, C1055, C1054, C1053, C1052, C1051, C1050, C1049, C1048, C1047, C1046, C1045, C1044, C1043, C1042, C1041, C1040, C1039, C1038, C1037, C1036, C1035, C1034, C1033, C1032, C1031, C1030, C1029, C1028, C1027, C1026, C1025, C1024, C1023, C1022, C1021, C1020, C1019, C101

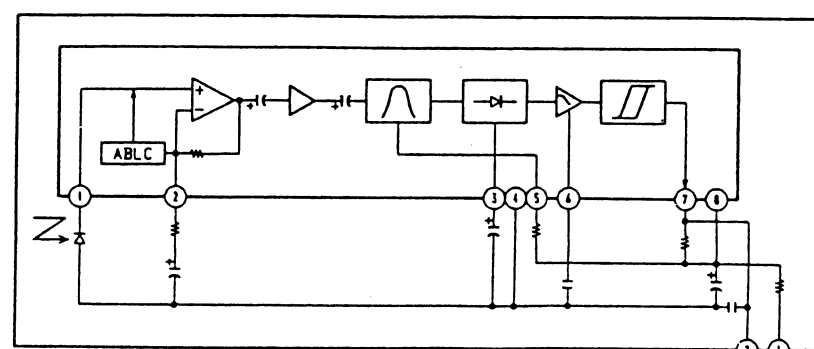


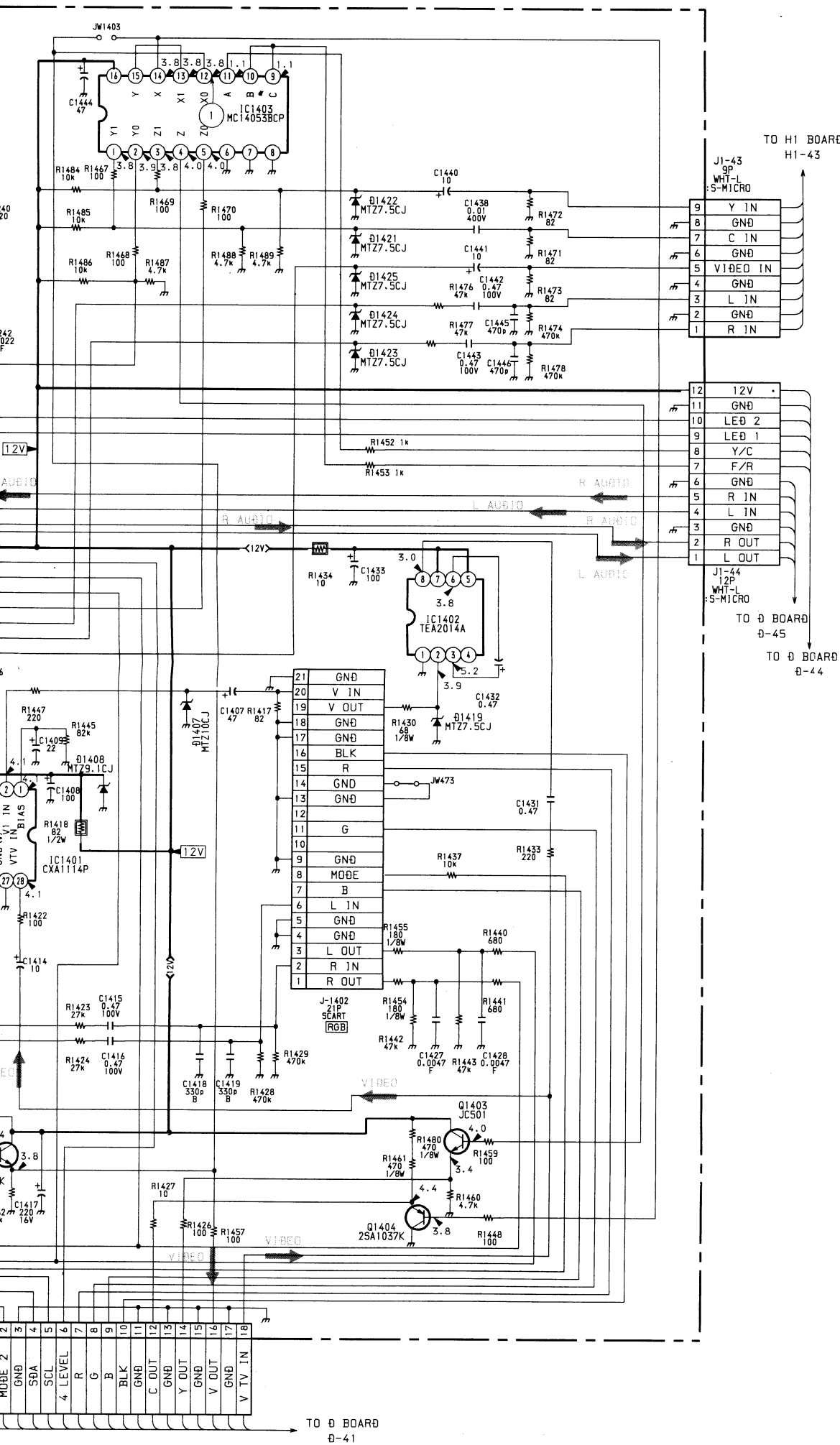






	KV-E25210	K
C1512	0.0068MF 400V	
C1514	0.022MF 250V	
C1515	820PF 50V	
R1515	680K 1/10W:CHIP	
R1520	470K 1/10W:CHIP	39
R1550	JW	11W



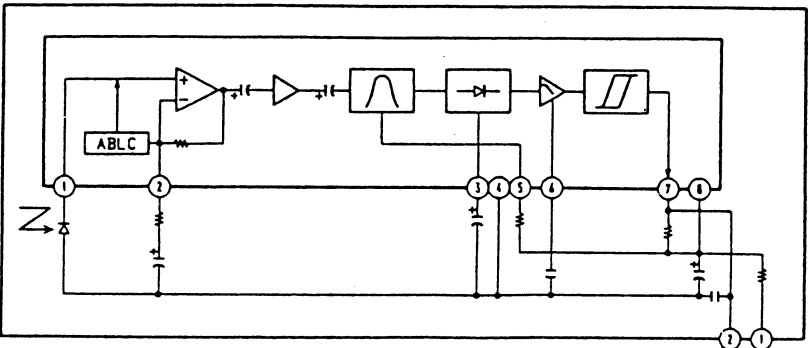


J1 BOARD \*MARK

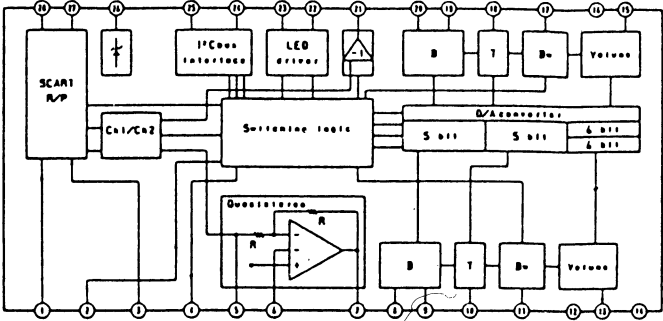
	KV-E2521D	KV-E2921D
C1512	0.0068MF 400V	—
C1514	0.022MF 250V	—
C1515	820PF 50V	—
R1515	680K 1/10W:CHIP	—
R1520	470K 1/10W:CHIP	390K 1/10W:CHIP
R1550	JW	11W : RS

— NOT MOUNTED

H2 BOARD IC1651 SBX1610-11



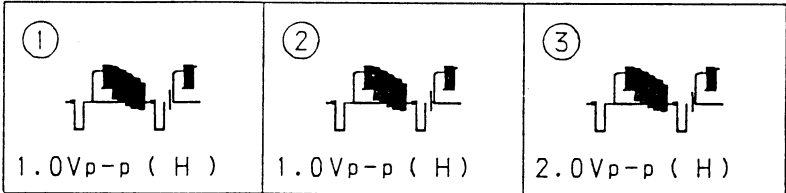
J1 BOARD IC201 TDA6200



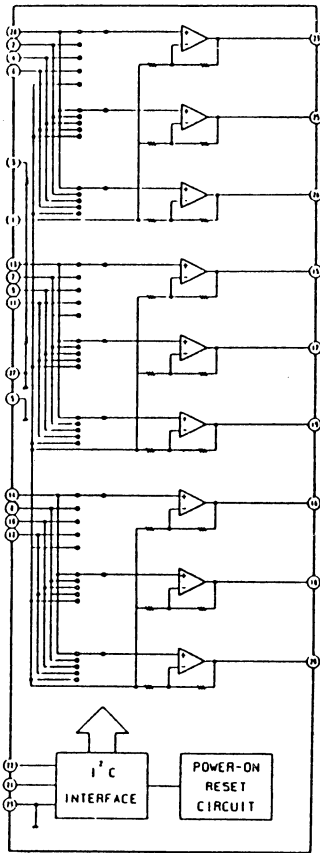
J1 BOARD

IC201	TDA6200	AUDIO CONTROL
IC1401	CXA1114P	AV SW
IC1402	TEA2014A	SCART VIDEO OUT
IC1403	MC14053BCP	COMPOSITE Y/C SW
IC1501	TEA2031A	EAST-WEST CORRECTION
Q201	2SC2412K	AUDIO R BUFF
Q202	2SC2412K	AUDIO L BUFF
Q1401	2SA1162G	VIDEO OUT
Q1402	2SC2412K	VIDEO OUT BUFF
Q1403	JC501	Y OUT BUFF
Q1404	2SA1037K	C OUT BUFF
D201	MTZJ-T-77-9.1C	PROTECT
D202	MTZJ-T-77-9.1C	PROTECT
D205	MTZJ-T-77-7.5C	PROTECT
D206	MTZJ-T-77-7.5C	PROTECT
D1401	MTZJ-T-77-7.5C	PROTECT
D1403	MTZJ-T-77-7.5C	PROTECT
D1404	MTZJ-T-77-7.5C	PROTECT
D1405	MTZJ-T-77-7.5C	PROTECT
D1406	MTZJ-T-77-7.5C	PROTECT
D1407	MTZJ-T-77-10C	PROTECT
D1408	MTZJ-T-77-9.1C	REG
D1409	MTZJ-T-77-9.1C	PROTECT
D1410	MTZJ-T-77-9.1C	PROTECT
D1415	MTZJ-T-77-7.5C	PROTECT
D1418	MTZJ-T-77-7.5C	PROTECT
D1419	MTZJ-T-77-7.5C	PROTECT
D1420	MTZJ-T-77-7.5C	PROTECT
D1421	MTZJ-T-77-7.5C	PROTECT
D1422	MTZJ-T-77-7.5C	PROTECT
D1423	MTZJ-T-77-7.5C	PROTECT
D1424	MTZJ-T-77-7.5C	PROTECT
D1425	MTZJ-T-77-7.5C	PROTECT
D1426	MTZJ-T-77-7.5C	PROTECT
D1501	RGP10GPKG23	PROTECT
D1502	ISS133	DE COUPLING H SIZE
D1503	ISS133	CLIPPING V PARABORA
D1504	ISS133	CLIPPING H PULSE
D1505	ISS133	REG
D1506	HZS36NB4TD	PROTECT
D1507	ISS133	PROTECT
D1510	ISS133	REG

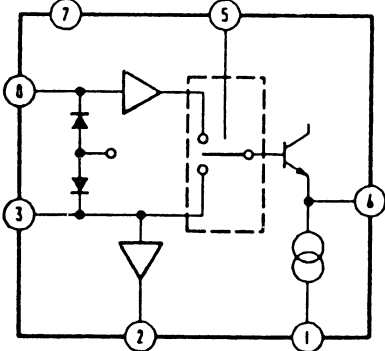
• WAVEFORMS J1 BOARD



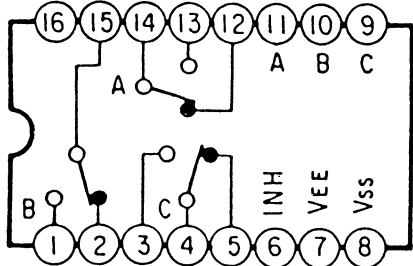
J1 BOARD IC1401 CXA1114P



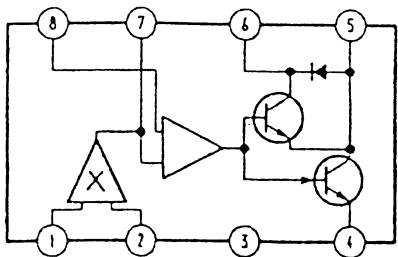
J1 BOARD IC1402 TEA2014A



J1 BOARD IC1403 MC14053BCP



J1 BOARD IC1501 TEA2031A



① PAL  5.4Vp-p (H)	① SECAM  4.8Vp-p (H)	① NTSC3.58/ NTSC4.43  5.6Vp-p (H)	② PAL  5.4Vp-p (H)
② SECAM  4.8Vp-p (H)	② NTSC3.58/ NTSC4.43  5.6Vp-p (H)	③ PAL  5.4Vp-p (H)	③ SECAM  5.0Vp-p (H)
③ NTSC3.58/ NTSC4.43  6.2Vp-p (H)	④  10.5Vp-p (H)	⑤ PAL  0.4Vp-p (H)	⑤ SECAM  0.3Vp-p (H)
⑤ NTSC3.58/ NTSC4.43  0.6Vp-p (H)	⑥ PAL/SECAM  1.1Vp-p (H)	⑥ NTSC3.58/ NTSC4.43  1.2Vp-p (H)	⑦ PAL/SECAM  1.4Vp-p (H)
⑦ NTSC3.58/ NTSC4.43  1.4Vp-p (H)	⑧ PAL  0.4Vp-p (H)	⑧ SECAM  1.0Vp-p (H)	⑧ NTSC3.58/ NTSC4.43  0.8Vp-p (H)
⑨ PAL  0.7Vp-p (H)	⑨ SECAM  1.4Vp-p (H)	⑨ NTSC3.58/ NTSC4.43  0.85Vp-p (H)	⑩ SECAM  0.2Vp-p (H)
⑪ SECAM  1.2Vp-p (H)	⑫ PAL  0.16Vp-p (H)	⑫ SECAM  0.2Vp-p (H)	⑫ NTSC3.58/ NTSC4.43  0.3Vp-p (H)
⑬ PAL  1.0Vp-p (H)	⑬ SECAM  0.8Vp-p (H)	⑬ NTSC3.58  0.9Vp-p (H)	⑬ NTSC4.43  0.95Vp-p (H)
⑭ PAL  0.8Vp-p (H)	⑭ SECAM  0.7Vp-p (H)	⑭ NTSC3.58  0.6Vp-p (H)	⑭ NTSC4.43  0.8Vp-p (H)
⑮ PAL  0.7Vp-p (H)	⑮ SECAM  0.1Vp-p (H)	⑮ NTSC3.58  0.5Vp-p (H)	⑮ NTSC4.43  0.6Vp-p (H)
⑯ PAL/SECAM  0.9Vp-p (H)	⑯ NTSC3.58  0.7Vp-p (H)	⑯ NTSC4.43  0.8Vp-p (H)	⑰ PAL  1.9Vp-p (H)
⑰ NTSC3.58  0.4Vp-p (H)	⑰ NTSC4.43  0.2Vp-p (H)	⑱ PAL  0.2Vp-p (H)	⑱ SECAM  0.8Vp-p (H)
⑲ PAL  0.6Vp-p (H)	⑲ SECAM  0.8Vp-p (H)	⑲ NTSC3.58/ NTSC4.43  0.9Vp-p (H)	

As to the voltage value shown by the mark ※ on the Schematic Diagram, see the another list.

IC・NO	PIN・NO	PAL	SECAM	NTSC 3.38	NTSC 4.43
IC301	(5)	6.7	4.8	4.8	4.8
	(15)	8.9	7.0	7.0	7.0
	(19)	3.4	3.4	3.8	3.4
	(24)	6.6	6.6	6.0	6.3
IC304	(1)	0.1	6.8	6.9	6.8
	(5)	9.9	0	9.9	9.9
	(7)	4.6	0	4.6	4.6
	(8)	3.4	3.0	3.4	3.4
	(9)	3.4	3.0	3.4	3.4
	(10)	4.6	3.4	4.6	4.6
	(11)	2.3	3.1	3.1	2.3
	(12)	5.6	5.6	5.6	7.4
	(13)	7.5	7.5	5.7	5.7
	(15)	0.1	0.1	0.1	6.0
	(16)	0.1	0.1	6.0	0.1
	(17)	0.1	6.0	0.1	0.1
	(18)	6.0	0.1	0.1	0.1
	(19)	6.0	0.1	0.1	0.1
	(20)	6.0	0.1	0.1	0.1
	(21)	6.0	0.1	0.1	0.1

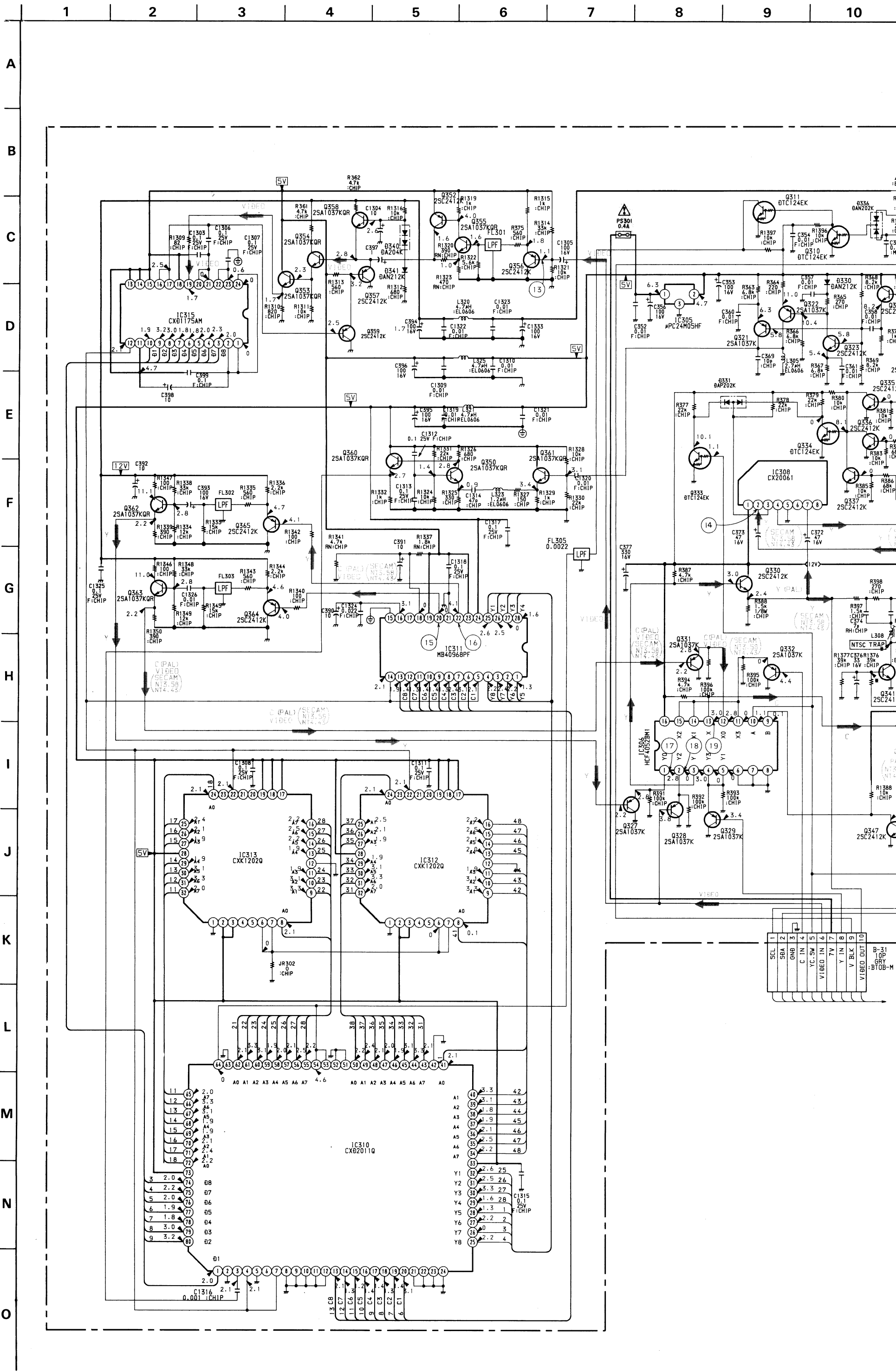
Q・NO	PAL	SECAM	NTSC 3.38	NTSC 4.43
Q338	B 2.4	3.9	3.9	3.9
	E 3.0	4.6	4.6	4.6
Q339	B 3.0	4.6	4.6	4.6
	E 2.4	3.9	3.9	3.9
Q341	B 0	0.6	0.4	0.1
	C 11.6	0	11.6	11.6
Q342	B 0	0	0.4	0
	C 11.7	0	11.7	11.7
Q343	B 3.4	5.4	5.3	5.3
	E 2.8	4.7	4.7	4.7
Q344	B 0	5.4	1.0	0.1
	E 4.4	4.8	1.5	4.5
Q345	B 5.0	0.1	1.9	5.0
	E 4.4	4.4	1.4	4.4
Q347	B 0.6	0	0	0
	C 0.1	11.9	11.9	11.9
Q348	B 0.1	0.1	1.0	0.1
	C 1.3	0.2	0.2	0.4

B1 BOARD

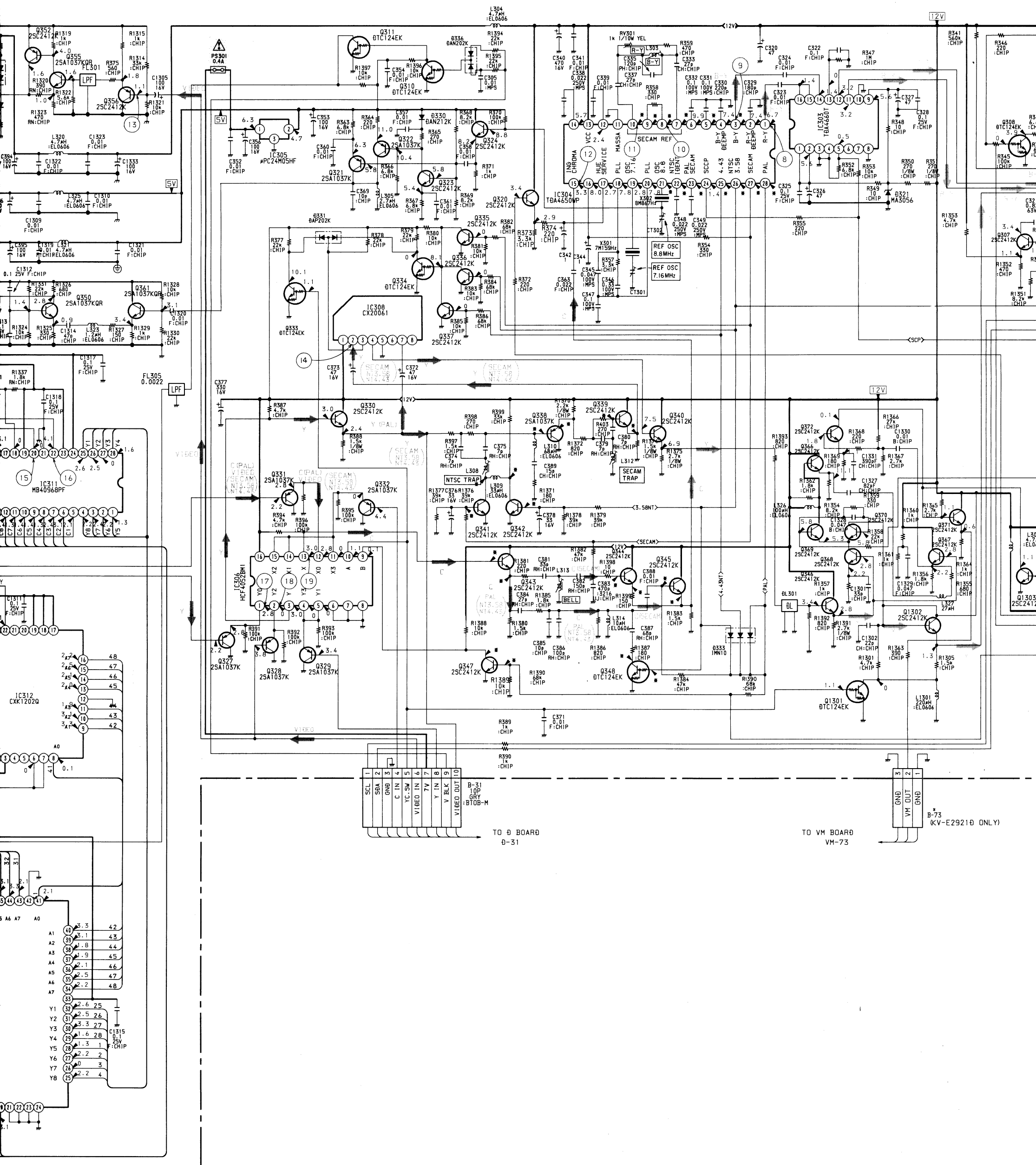
IC301	TDA4580-V4	VIDEO PROCESSOR
IC302	TDA8442-N3	D/A CONVERTOR
IC303	TDA4660T	1H DELAY
IC304	TDA4650WP	COLOR PROCESSOR
IC305	μPC24M05HF	REGULATOR
IC306	HCF4052BM1	Y/C SW
IC308	CX20061	Y INTERRUPT
IC310	CXB2011Q	COMB CONTROL
IC311	MB40968PF	D/A CONVERTER
IC312	CXK1202Q	MEMORY
IC313	CXK1202Q	MEMORY
IC315	CXB1175AM	A/D CONVERTER
Q301	2SC2412K	CANRL +BLK
Q302	2SC2412K	ON SCREEN DISPLAY SW
Q303	2SC2412K	FAS PICTURE MUTE SW
Q304	2SC2412K	ON SCREEN DISPLAY SW
Q305	DTA144EK	ANIT PRIORITY SCART
Q306	2SC2412K	STBY SW
Q307	2SC2412K	ABL
Q308	DTIC124EK	MUTE
Q310	DTIC124EK	SECAM SW
Q311	DTIC124EK	SECAM SW
Q320	2SC2412K	HUE BUFFER
Q321	2SA1037K	CLK AMP3
Q322	2SA1037K	CLK AMP2
Q323	2SC2412K	CLK AMP1
Q324	2SC2412K	CLK BUFFER
Q327	2SA1037K	Y OUT
Q328	2SA1037K	VIDEO IN
Q329	2SA1037K	Y IN
Q330	2SC2412K	VIDEO BUFFER
Q331	2SA1037K	C OUT
Q332	2SA1037K	C IN
Q333	DTIC124EK	Y/C SW
Q334	DTIC124EK	Y SW
Q335	2SC2412K	SECAM SW
Q336	2SC2412K	NTSC (3.58) SW
Q337	2SC2412K	NTSC (4.43) SW
Q338	2SA1037K	Y BUFFER
Q339	2SC2412K	Y BUFFER
Q340	2SC2412K	Y BUFFER
Q341	2SC2412K	SECAM TRAP SW
Q342	2SC2412K	NTSC TRAP SW
Q343	2SC2412K	C OUT
Q344	2SC2412K	SECAM SW
Q345	2SC2412K	PAL/SECAM SW
Q346	2SC2412K	Y IN
Q347	2SC2412K	PAL SW
Q348	DTIC124EK	NTSC (3.58) SW
Q350	2SA1037KQR	CLK AMP
Q352	2SC2412K	VIDEO AMP
Q353	2SA1037KQR	BUFFER
Q354	2SA1037KQR	BUFFER
Q355	2SA1037KQR	VIDEO AMP
Q356	2SC2412K	VIDEO BUFFER
Q357	2SC2412K	CLAMP BIAS
Q358	2SA1037KQR	VIDEO CLAMP
Q359	2SC2412K	CLAMP BIAS
Q360	2SA1037KQR	CLK BUFFER
Q361	2SA1037KQR	CLK AMP
Q362	2SA1037KQR	Y BUFFER
Q363	2SA1037KQR	C BUFFER
Q364	2SC2412K	C BUFFER
Q365	2SC2412K	Y BUFFER
Q366	2SC2412K	SHP BUFFER
Q367	2SC2412K	Y BUFFER
Q368	2SC2412K	SHP AMP
Q369	2SC2412K	SHP AMP
Q370	2SC2412K	SHP AMP
Q371	2SC2412K	VM BUFFER
Q372	2SC2412K	VM AMP
Q373	DTIC124EK	
Q1301	DTIC124EK	Y BUFFER
Q1302	2SC2412K	Y BUFFER
Q1303	2SC2412K	VM MUTE
Q301	1MN10	ACO AT ATBY
Q304	QAN212K	PROTECT
Q305	QAN212K	PROTECT
Q307	MA3110M	PROTECT
Q308	QAN212K	PROTECT
Q309	QAN212K	PROTECT
Q310	MA3110M	PROTECT
Q311	MA3110M	PROTECT
Q312	MA3110M	PROTECT
Q314	QAN204K	PROTECT
Q318	QAN204K	PROTECT
Q319	QAN204K	PROTECT
Q320	QAN204K	PROTECT
Q321	MA3056	REG
Q322	QAN212K	PROTECT
Q330	QAN212K	BIAS
Q331	QAP202K	Y/C SW
Q333	1MN10	SYSTEM SW
Q336	QAN202K	CORRECT SW
Q340	QAN204K	VIDEO AMP
Q341	QAN212K	VIDEO AMP

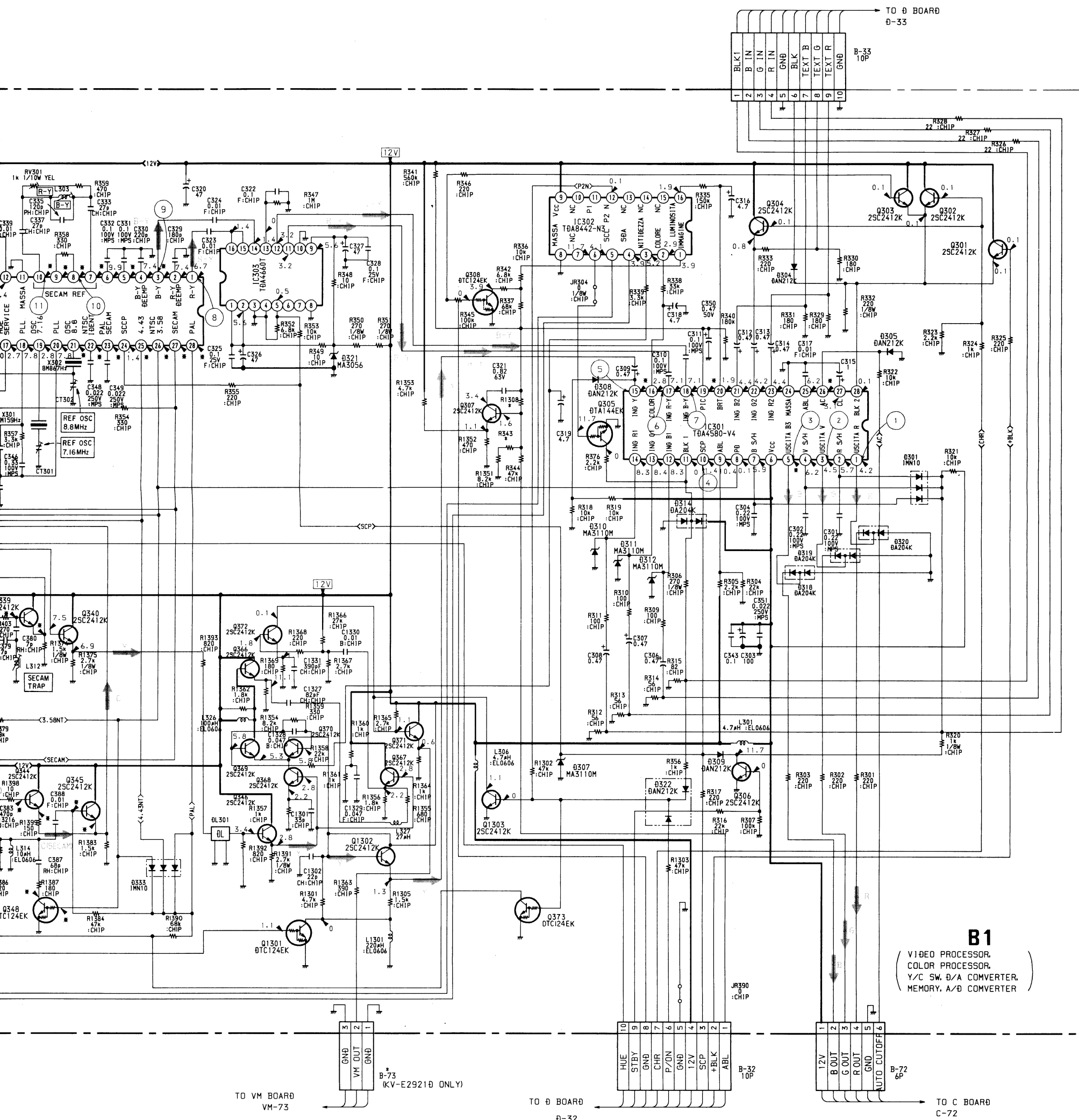
B1 BOARD \*MARK

	KV-E2521D	KV-E2921D
R343	560 Ω 1/10W	2.2k 1/10W
R1308	0 Ω 1/10W	4.7k 1/10W
B-73	OPEN	3P

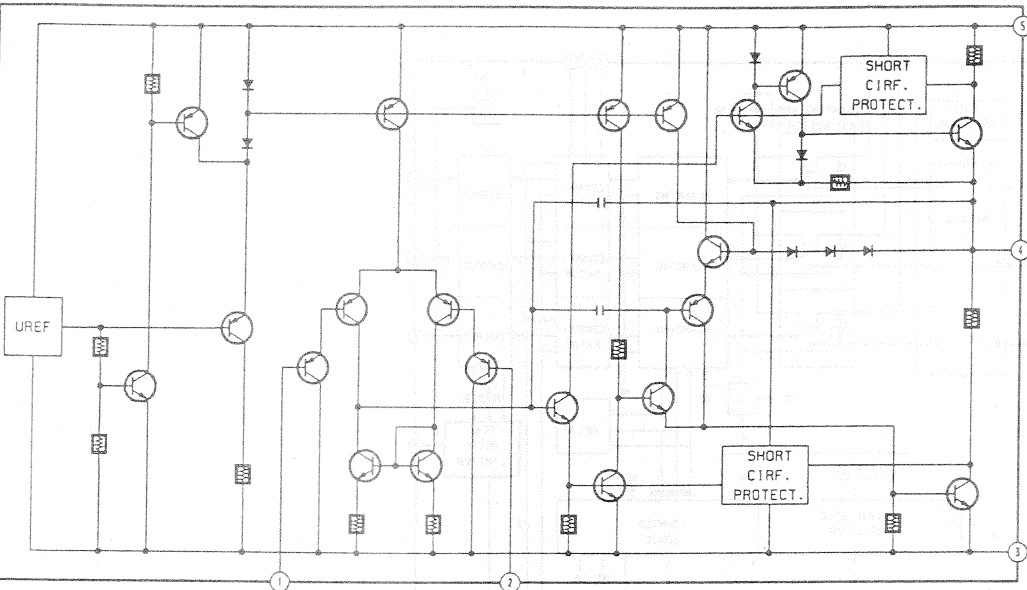




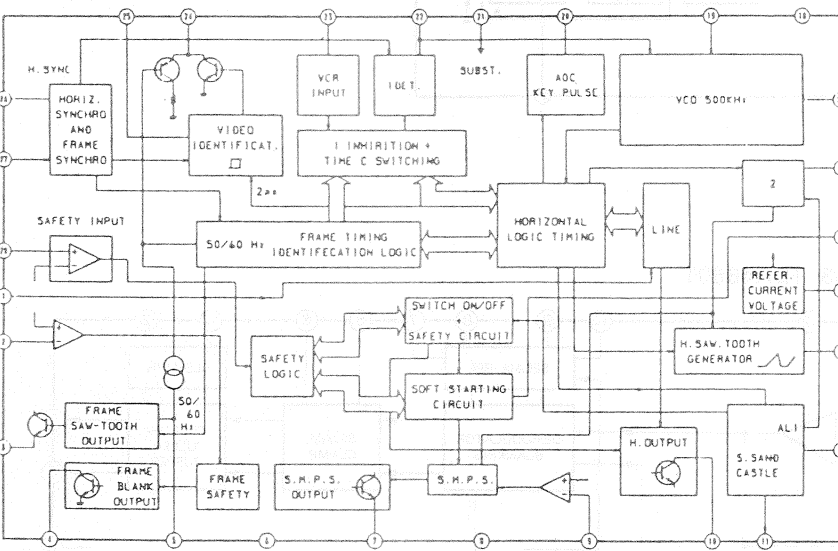




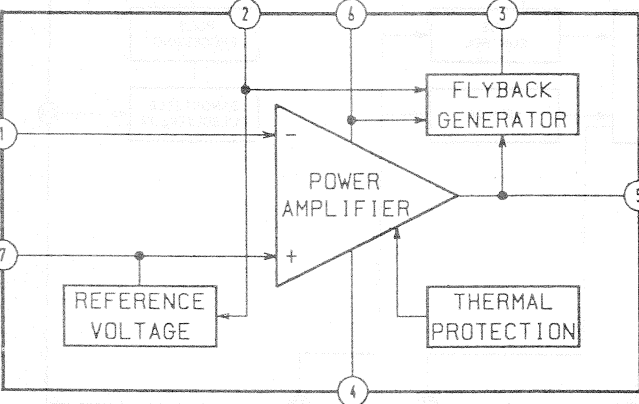
D BOARD IC251/261 TDA2050



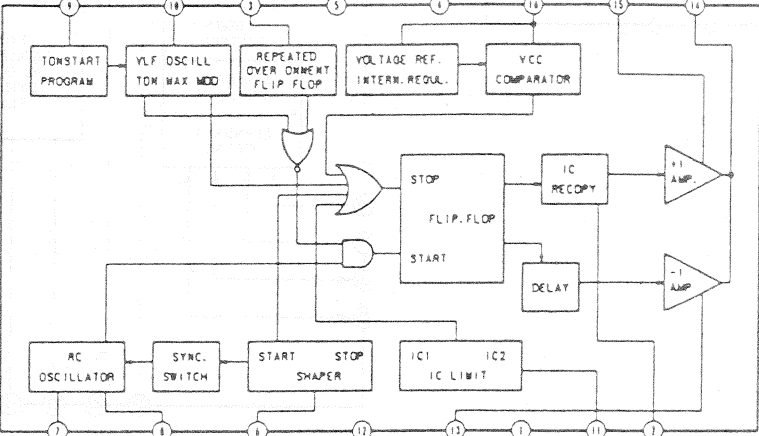
D BOARD IC501 TEA2028B



D BOARD IC502 TDA8170

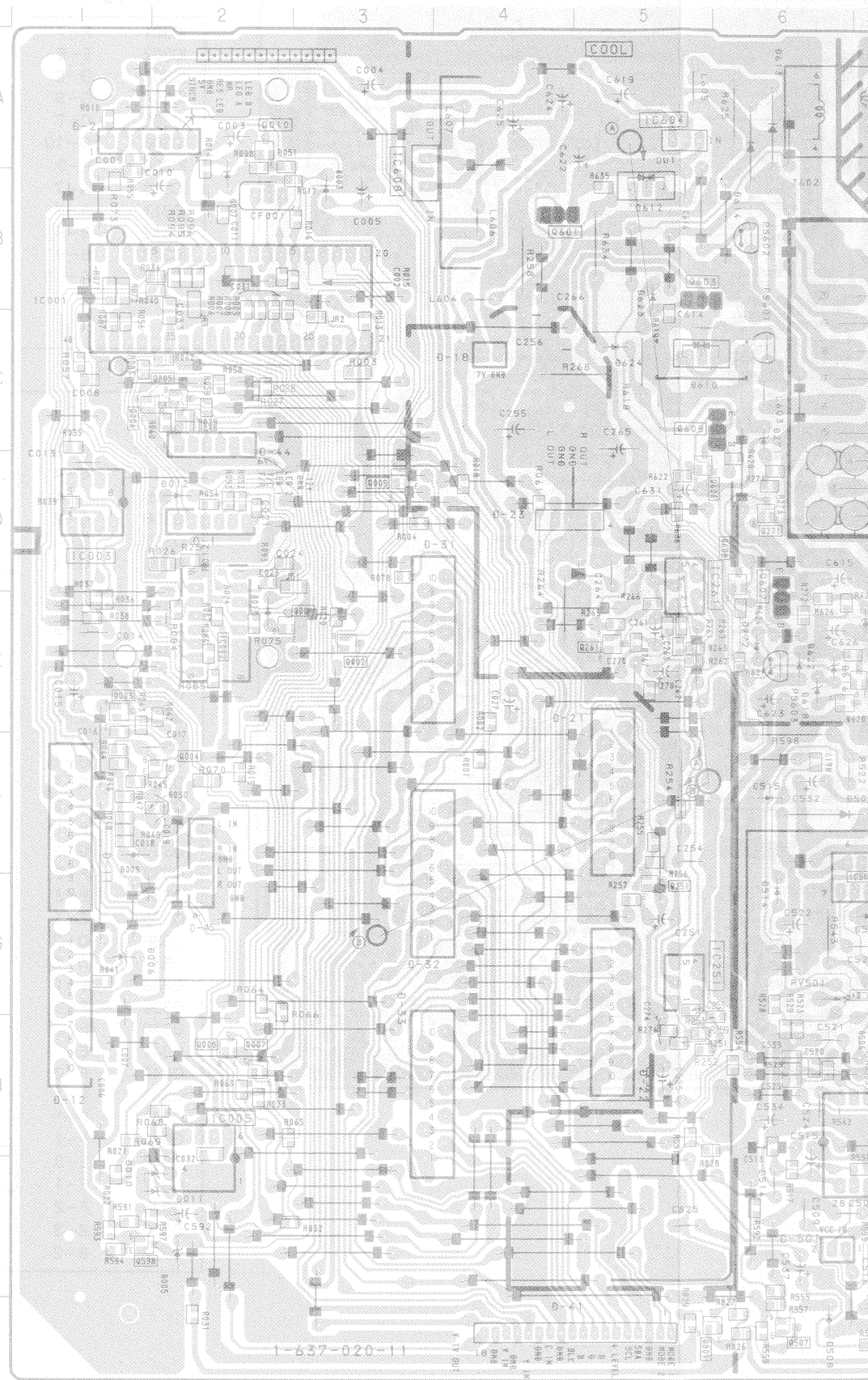


D BOARD IC601 TEA2260



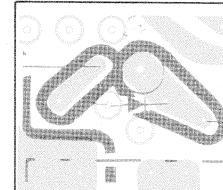
**D** [ TUNING CONTROL, POWER CONTROL, AUDIO OUT, H/V OUT ]

-D BOARD-





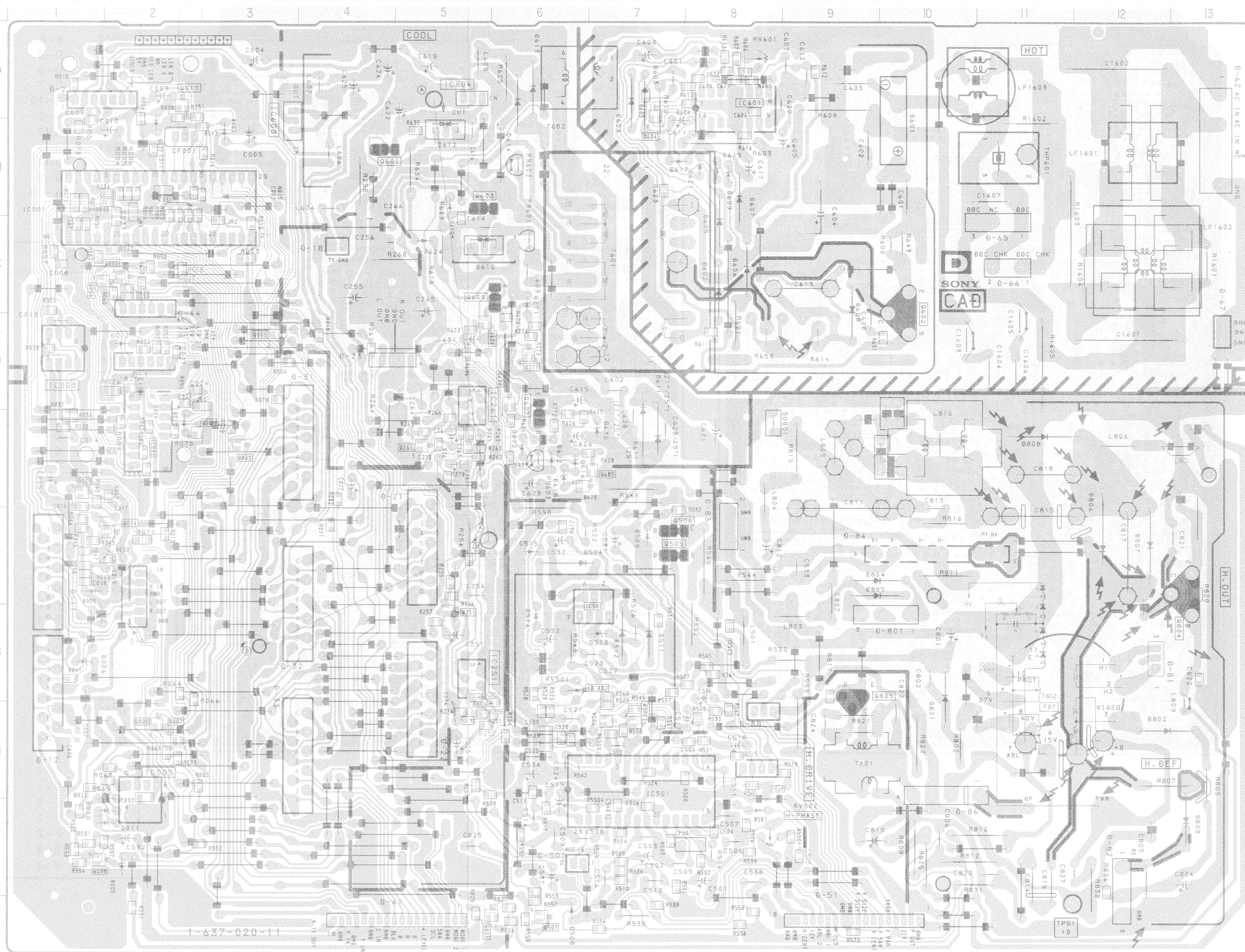
**D** [TUNING CONTROL, POWER CONTROL,  
AUDIO OUT, H/V OUT]



**NOTE:**  
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

**-D BOARD-**

IC		D010		I-2	
IC001	B-2	D011	I-2	D012	I-2
IC002	E-2	D013	E-2	D014	E-2
IC003	D-1	D271	C-6	D272	E-6
IC005	H-2	D501	I-8	D504	F-6
IC261	G-5	D506	H-7	D508	J-6
IC501	H-7	D509	F-7	D511	G-7
IC502	G-7	D512	G-7	D513	G-7
IC601	A-8	D514	G-6	D515	F-6
IC604	A-5	D601	A-8	D602	C-8
IC608	B-3	D603	A-7	D604	A-7
TR		D605	C-8	D606	C-8
Q001	E-2	D607	B-8	D608	C-9
Q002	E-3	D609	B-8	D610	C-5
Q003	E-1	D611	E-7	D612	B-5
Q004	F-2	D613	A-6	D614	A-6
Q005	C-2	D616	E-6	D617	B-7
Q006	C-1	D618	E-6	D619	B-8
Q007	H-2	D620	E-6	D621	B-8
Q008	H-2	D622	E-6	D623	B-5
Q009	D-3	D624	C-5	D630	E-7
Q010	A-2	D801	G-10	D802	H-12
Q251	G-5	D803	I-13	D804	F-9
Q261	E-5	D805	F-9	D806	F-12
Q271	D-6	D807	F-12	D808	E-11
Q502	H-7	VR			
Q505	F-7	RV501	G-6	RV502	I-8
Q506	F-7	RV601	A-8		
Q507	J-6				
Q598	I-2				
Q601	B-4				
Q602	C-10				
Q603	B-5				
Q604	A-7				
Q605	E-7				
Q606	D-5				
Q607	D-6				
Q608	D-6				
Q609	C-5				
Q801	J-6				
Q804	G-13				
Q805	G-9				
D		VR			
D003	B-3	RV501	G-6		
D005	I-2	RV502	I-8		
D006	G-1	RV601	A-8		
D007	B-2				
D009	F-1				





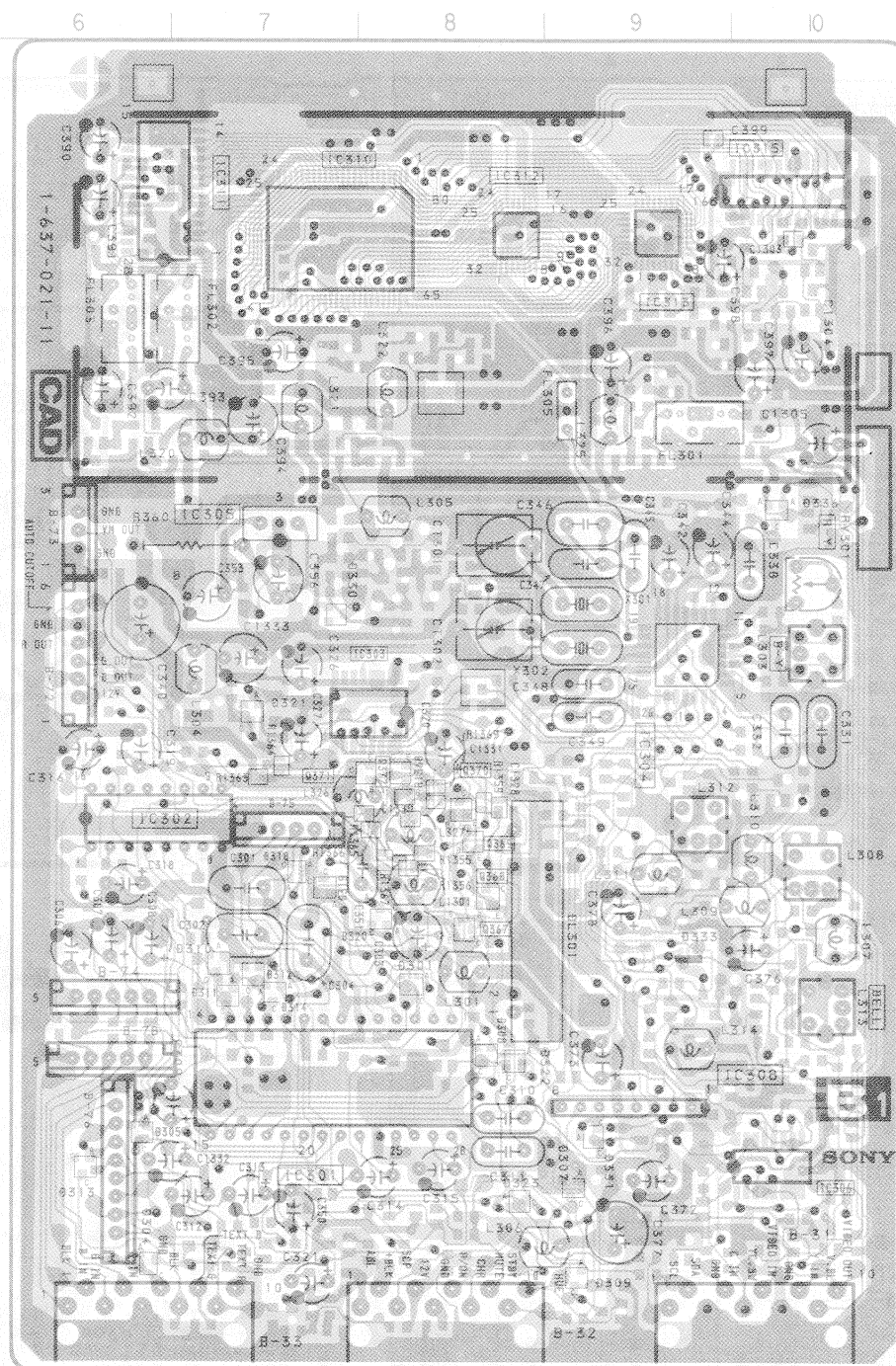
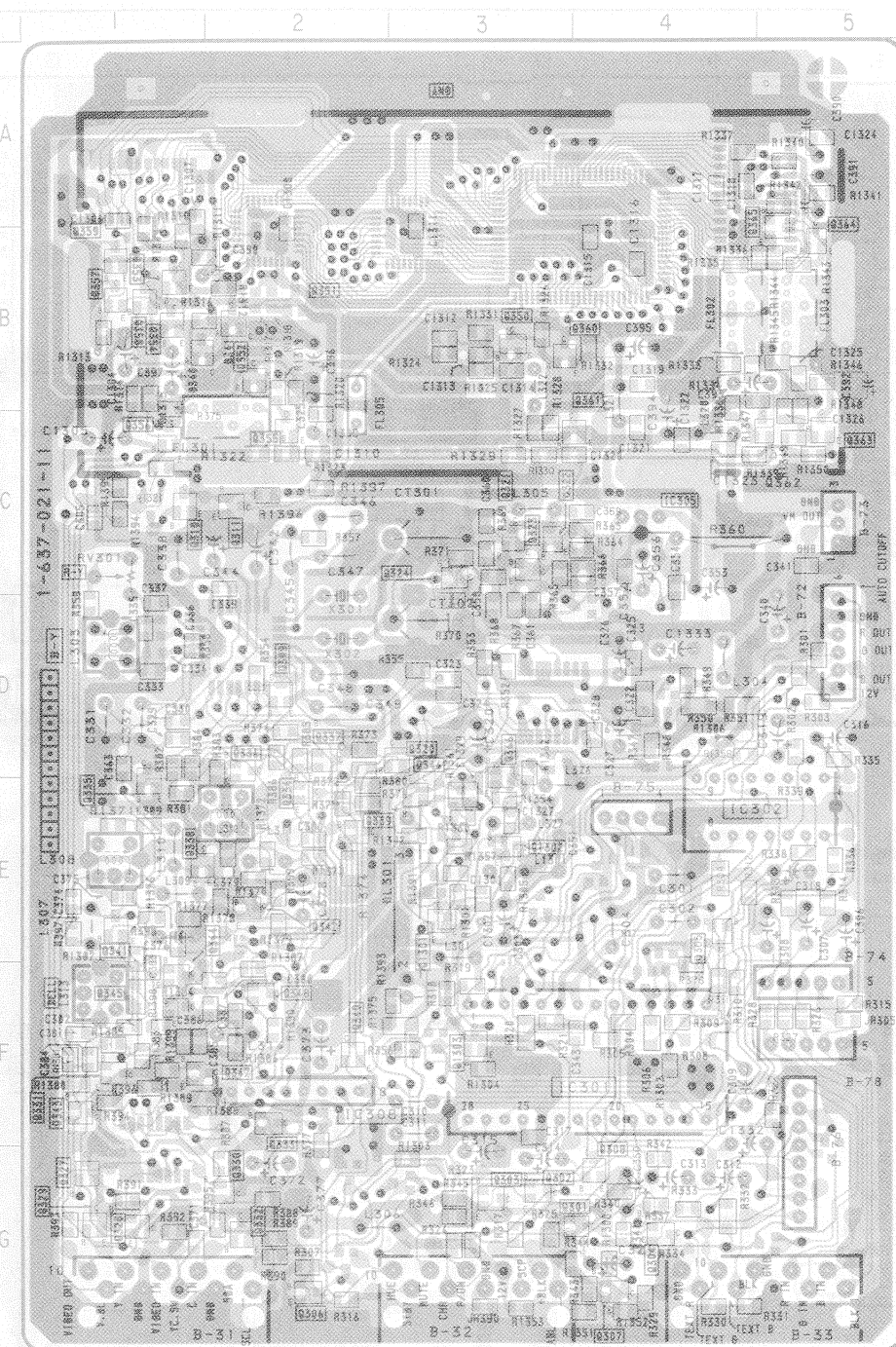
**B1**

VIDEO PROCESSOR, COLOR PROCESSOR,  
Y/C SW, D/A CONVERTER, MEMORY,  
A/D CONVERTER

—B1 BOARD—

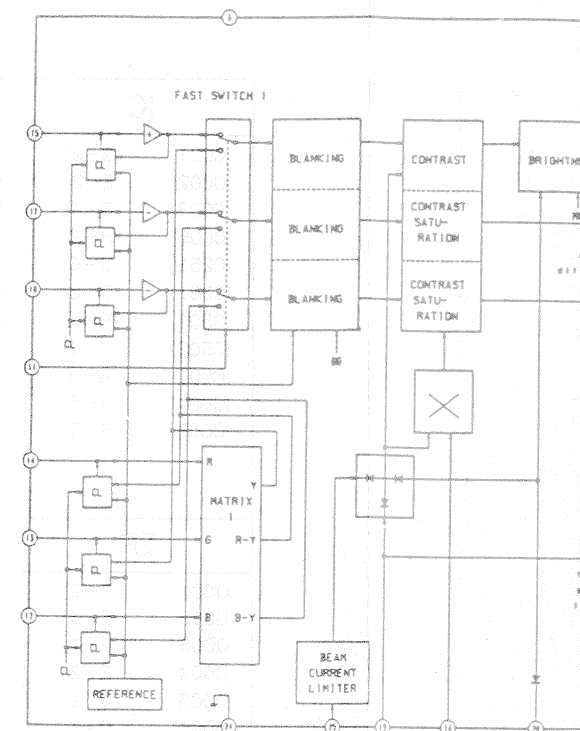
Note :

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

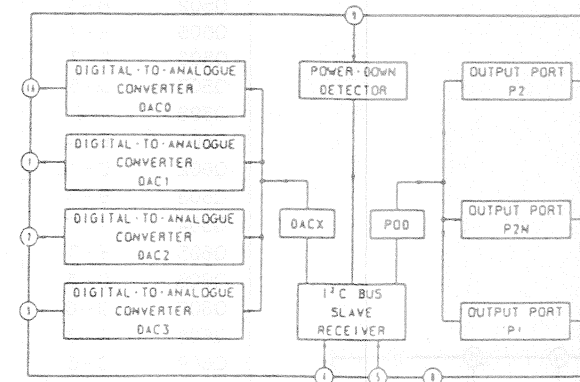


IC			
IC301	F-7	Q353	B-1
IC302	E-6	Q354	B-1
IC303	D-8	Q355	C-2
IC304	D-9	Q356	C-1
IC305	C-7	Q357	B-1
IC306	G-10	Q358	B-1
IC308	F-9	Q359	B-1
IC310	A-7	Q360	B-3
IC311	A-7	Q361	C-4
IC312	B-8	Q362	C-5
IC313	B-9	Q363	C-5
IC315	A-10	Q364	B-5
		Q365	A-5
		Q366	D-3
		Q367	E-8
		Q368	E-8
		Q369	E-8
		Q370	E-8
		Q371	D-8
		Q372	D-8
		Q373	
		Q1301	E-3
		Q1302	E-3
		Q1303	F-3
TR			
Q301	G-3		
Q302	G-3		
Q303	G-3		
Q304	G-4		
Q305	E-4		
Q306	G-2		
Q307	G-4		
Q308	G-4		
Q310	C-1		
Q311	C-2		
Q320	D-3		
Q321	C-3		
Q322	C-3		
Q323	C-3		
Q324	C-3		
Q327	G-1		
Q328	G-1		
Q329	G-1		
Q330	G-2		
Q331	F-1		
Q332	G-2		
Q333	F-2		
Q334	E-2		
Q335	E-1		
Q336	D-2		
Q337	D-2		
Q338	E-1		
Q339	E-2		
Q340	F-2		
Q341	E-1		
Q342	E-2		
Q343	F-1		
Q344	F-1		
Q345	F-1		
Q346	E-3		
Q347	F-1		
Q348	F-2		
Q350	B-3		
Q352	B-2		
		D	
		D301	F-8
		D304	G-6
		D305	F-6
		D307	G-9
		D308	F-8
		D309	G-9
		D310	E-7
		D311	F-7
		D312	E-7
		D314	F-7
		D318	E-7
		D319	E-7
		D320	E-8
		D321	D-7
		D322	F-8
		D330	D-7
		D331	F-9
		D333	E-9
		D336	C-10
		D340	B-1
		D341	B-2
		VR	
		RV301	C-10

B1 BOARD IC301 TDA4580-V4



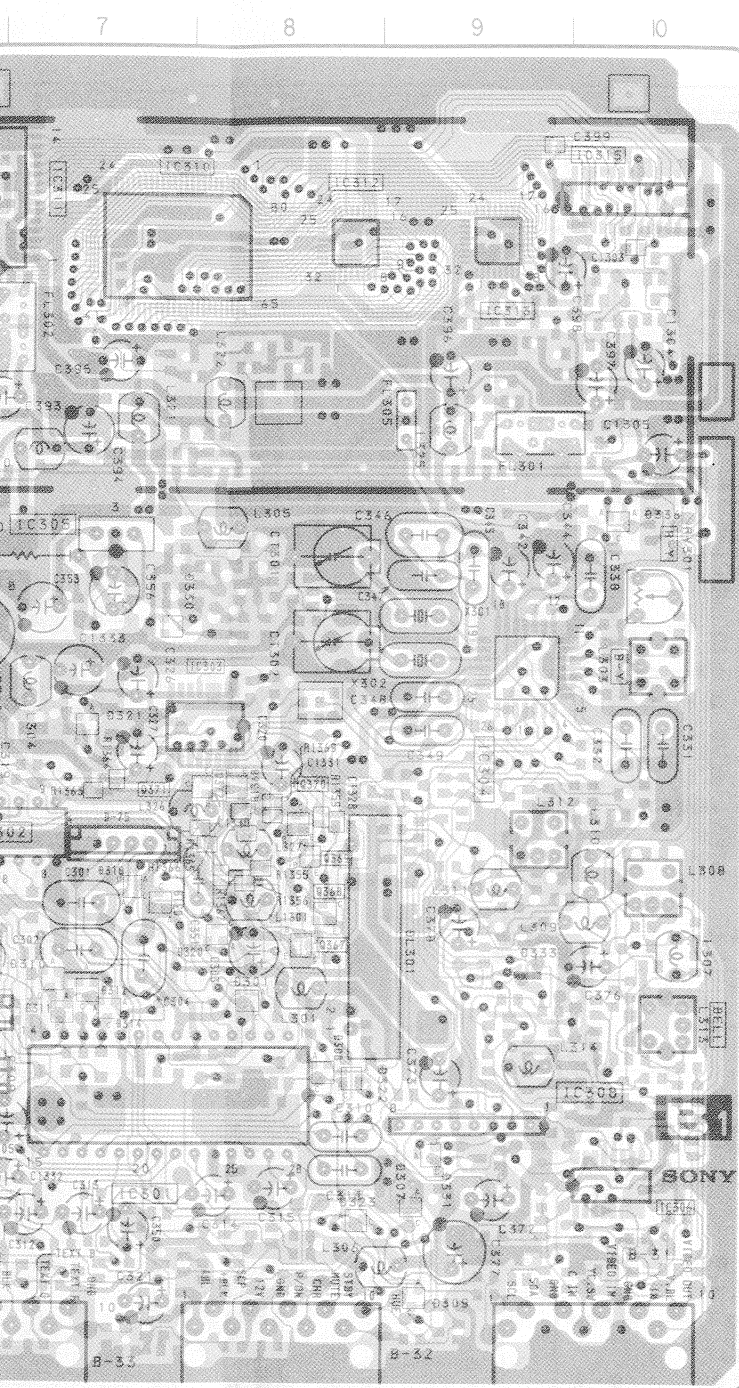
B1 BOARD IC302 TDA8442-N3





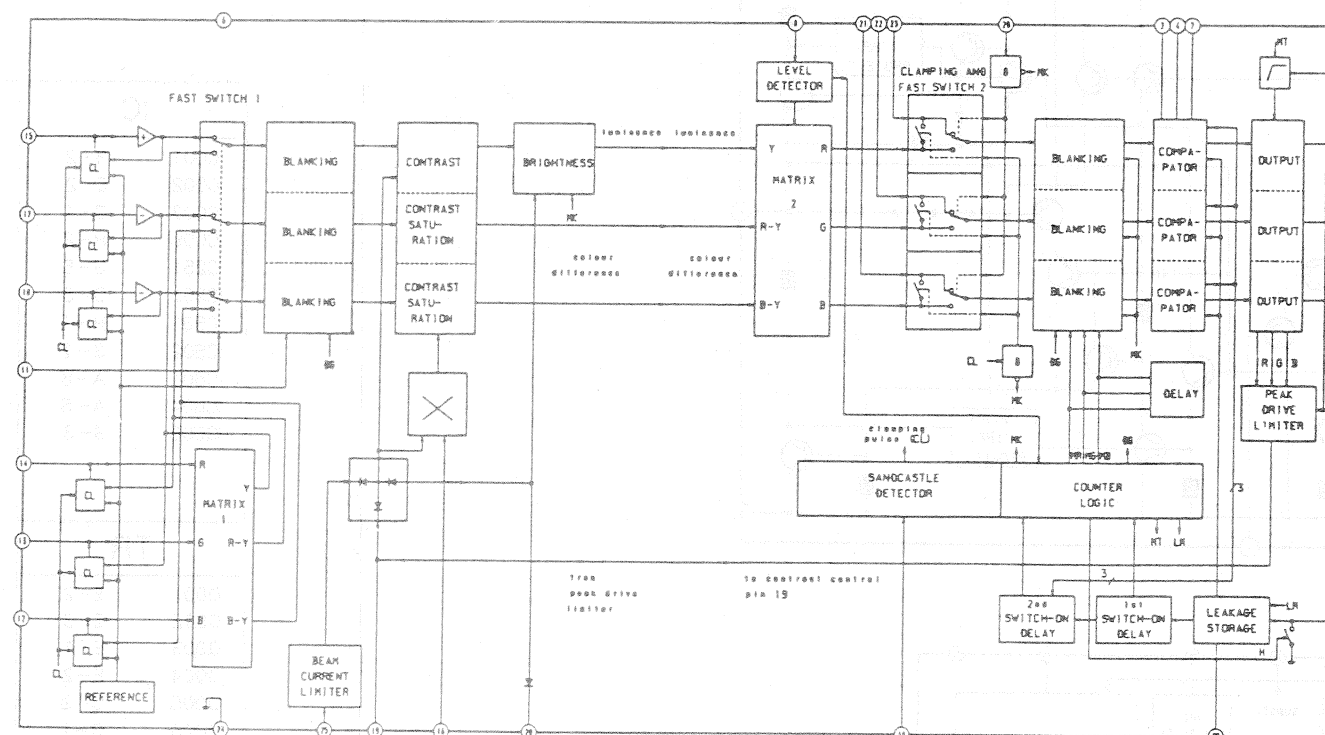
Note:

- Pattern from the side which enables seeing.
- Pattern of the rear side.

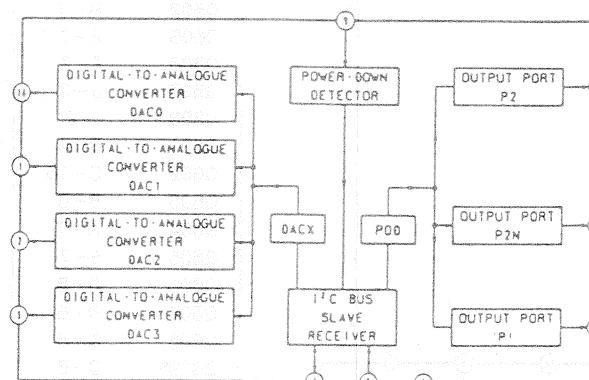


IC			
IC301	F-7	Q353	B-1
IC302	E-6	Q354	C-2
IC303	D-8	Q355	C-1
IC304	D-9	Q356	B-1
IC305	C-7	Q357	B-1
IC306	G-10	Q358	B-1
IC308	F-9	Q359	B-1
IC310	A-7	Q360	B-3
IC311	A-7	Q361	C-4
IC312	B-8	Q362	C-5
IC313	B-9	Q363	C-5
IC315	A-10	Q364	B-5
		Q365	A-5
		Q366	D-3
		Q367	E-8
		Q368	E-8
		Q369	E-8
		Q370	E-8
		Q371	D-8
		Q372	D-8
		Q373	
		Q1301	E-3
		Q1302	E-3
		Q1303	F-3
TR			
Q301	G-3		
Q302	G-3		
Q303	G-3		
Q304	G-4		
Q305	E-4		
Q306	G-2		
Q307	G-4		
Q308	G-4		
Q310	C-1		
Q311	C-2		
Q320	D-3		
Q321	C-3		
Q322	C-3		
Q323	C-3		
Q324	C-3		
Q327	G-1		
Q328	G-1		
Q329	G-1		
Q330	G-2		
Q331	F-1		
Q332	G-2		
Q333	F-2		
Q334	E-2		
Q335	E-1		
Q336	D-2		
Q337	D-2		
Q338	E-1		
Q339	E-2		
Q340	F-2		
Q341	E-1		
Q342	E-2		
Q343	F-1		
Q344	F-1		
Q345	F-1		
Q346	E-3		
Q347	F-1		
Q348	F-2		
Q350	B-3		
Q352	B-2		
		D	
		D301	F-8
		D304	G-6
		D305	F-6
		D307	G-9
		D308	F-8
		D309	G-9
		D310	E-7
		D311	F-7
		D312	E-7
		D314	F-7
		D318	E-7
		D319	E-7
		D320	E-8
		D321	D-7
		D322	F-8
		D330	D-7
		D331	F-9
		D333	E-9
		D336	C-10
		D340	B-1
		D341	B-2
		VR	
		RV301	C-10

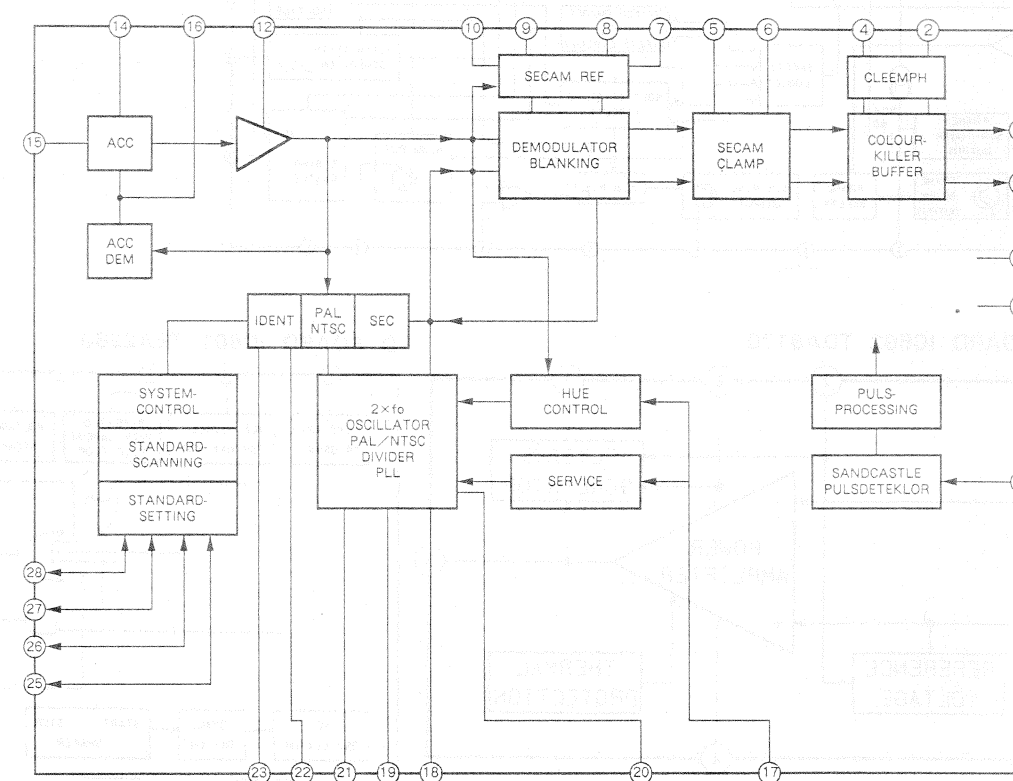
B1 BOARD IC301 TDA4580-V4



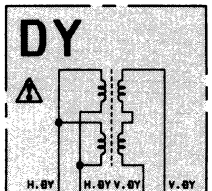
B1 BOARD IC302 TDA8442-N3



B1 BOARD IC303 TDA4660T





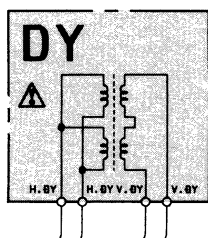
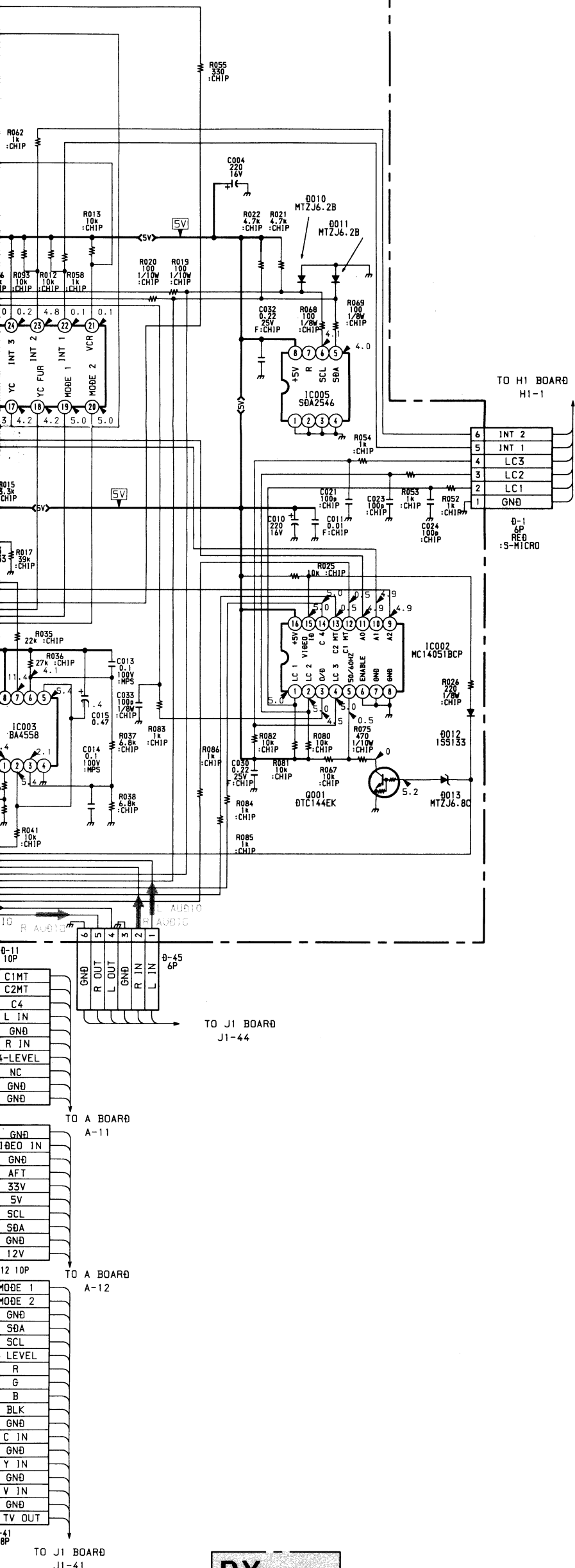




D-2  
7P  
WHT  
S-MICRO

( TUNING CONTROL  
POWER CONTROL  
AUDIO OUT  
H/V OUT

D



## D BOARD

IC001	SDA20560	TUNING CTL
IC002	MC14051BCP	ON SCREEN DISPLAY
IC003	BA4558	AFT COMPARATOR
IC005	SBA2546	MY MEMORY
IC251	TDA2050	AUDIO OUT (L)
IC261	TDA2050	AUDIO OUT (R)
IC501	TEA2028B	DEFLECTION PROCESSOR
IC502	TDA8170	V OUT
IC601	TEA2260	PRIMARY SMRS CTL
IC604	TEA7605	+5V REG
IC608	TYA7812CT	+12V REG
Q001	OTC144EK	50/60Hz SW
Q002	OTA144EK	REG SW
Q003	2SA1037-K	SYNC SEPARATOR
Q004	2SA1037-K	SYNC SEPARATOR
Q005	OTC144EK	Y/C SW
Q006	OTC144EK	FRONT/REAR SW
Q007	2SC2412-K	MODE 2 SWITCH
Q008	2SC2412-K	MODE 1 SWITCH
Q009	2SC2412-K	MUTE SW
Q010	2SC2412-K	RESET
Q251	2SC2412-K	AUDIO MUTO
Q261	2SC2412-K	AUDIO MUTO
Q271	2SC2412-K	VOLTAGE DETECT
Q502	2SA1037-K	CONSTANT CURRENT SOURCE
Q505	2SD774	V CENT
Q506	2SB734	V CENT
Q507	2SA1037-K	CANAL +BLK
Q598	2SA1037-K	VIDEO AMP
Q601	2SB1357T114EF	STBY SW
Q602	SD1545	REG OUT
Q603	2SB1357T114EF	STBY SW
Q604	2SA1037-K	FAST ON/OFF
Q605	2SC2412-K	STBY SW
Q606	2SC2412-K	STBY SW
Q607	2SD2096-EF	+12V REG
Q608	2SC2412K	STBY SW
Q609	2SD789-3	STBY SW
Q801	2SC2412-K	ABL AMP
Q804	BU508	H OUT
Q805	2SC2688	H DRIVER
D003	1SS133	HUE CTL
D005	MTZJ5.6B	PROT
D006	MTZJ33A	VC VOLTAGE REGULATION
D007	MTZJ3.9B	PLOT RESET
D009	MTZJ5.6B	CLIPPING SYNC LEVEL
D010	MTZJ6.2B	PROT
D011	MTZJ6.2B	PROT
D012	1SS133	PROT
D013	MTZJ6.8C	PROT
D271	MTZJ13B	VOLTAGE DETECT
D272	1SS133	DECOUPING MUTE AUDIO
D501	1SS133	START
D504	GP080PKG23	V PULSE OUT
D506	DA204K	CURRENT (KV-E25210 ONLY)
D508	1SS133	CANAL +BLK LEVEL
D509	1SS133	V LIN
D511	GP080PKG23	PROT
D512	GP080PKG23	PROT
D513	MTZJ4.7B	PROT
D514	1SS133	PROT (KV-E29210 ONLY)
D515	1SS133	PROT (KV-E29210 ONLY)
D601	D4SB60L-F	AC RECT
D602	RGP10GPKG23	REF RECT
D603	GP080PKG23	SMPS DRIVE 1
D604	GP080PKG23	SMPS DRIVE 2
D605	GP080PKG23	SMPS DRIVE 3
D606	RGP10GPKG23	+12V RECT
D607	RGP10GPKG23	REF RECT
D608	ERC25-06S	PLUSE CLIPPER
D609	MTZJ33A	FAST ON/OFF
D610	CTU-12S	+14V RECT
D611	ER029-08J	+135VRECT
D612	CTU-12S	+7V RECT
D613	RGP15JPKG23	AF V RECT-1
D614	RGP15JPKG23	AF V RECT-2
D616	MTZJ6.2B	+12V REG
D617	1SS133	PROT
D618	MTZJ5.6B	+12V REF
D619	MTZJ33A	FAST ON/OFF-2
D620	DA204K	+12V REF
D621	MTZJ33A	FAST ON/OFF-3
D622	1SS133	PROT
D623	1SS133	DECOUPING STBY
D624	1SS133	DECOUPING DTBY
D630	MTZJ15A	+12V REF
D801	RGP10GPKG23	+27V REF
D802	RGP10GPKG23	+200V REF
D803	RGP02-17	G2 REF
D804	GP080PKG23	H CENTER-1
D805	GP080PKG23	H CENTER-2
D806	ERC06-1SS	H DAMPER-1
D807	ERC06-1SS	H DAMPER-2
D808	ER029-08J	PIN DAMPER

BOARD

A20560	TUNING CTL
14051BCP	ON SCREEN DISPLAY
4558	AFT COMPARE
A2546	MY MEMORY
A2050	AUDIO OUT (L)
A2050	AUDIO OUT (R)
A2028B	DEFLECTION PROCESSOR
A8170	V OUT
A2260	PRIMARY SMRS CTL
A7605	+5V REG
A7812CT	+12V REG
C144EK	50/60Hz SW
A144EK	REG SW
A1037-K	SYNC SEPARATOR
A1037-K	SYNC SEPARATOR
C144EK	Y/C SW
C144EK	FRONT/REAR SW
C2412-K	MODE 2 SWITCH
C2412-K	MODE 1 SWITCH
C2412-K	MUTE SW
C2412-K	RESET
C2412-K	AUDIO MUTO
C2412-K	AUDIO MUTO
C2412-K	VOLTAGE DETECT
A1037-K	CONSTANT CURRENT SOURCE
Ø774	V CENT
B734	V CENT
A1037-K	CANAL +BLK
A1037-K	VIDEO AMP
B1357T114EF	STBY SW
1545	REG OUT
B1357T114EF	STBY SW
A1037-K	FAST ON/OFF
C2412-K	STBY SW
C2412-K	STBY SW
Ø2096-EF	+12V REG
C2412K	STBY SW
Ø789-3	STBY SW
C2412-K	ABL AMP
508	H OUT
C2688	H DRIVER
SS133	HUE CTL
TZJ5.6B	PROT
TZJ33A	VC VOLTAGE REGULATION
TZJ3.9B	PLOT RESET
TZJ5.6B	CLIPPING SYNC LEVEL
TZJ6.2B	PROT
TZJ6.2B	PROT
SS133	PROT
TZJ6.8C	PROT
TZJ13B	VOLTAGE DETECT
SS133	DECOUPING MUTE AUDIO
SS133	START
P08ØPKG23	V PULSE OUT
A204K	CURRENT (KV-E2521Ø ONLY)
SS133	CANAL +BLK LEVEL
SS133	V LIN
P08ØPKG23	PROT
P08ØPKG23	PROT
TZJ4.7B	PROT
SS133	PROT (KV-E2921Ø ONLY)
SS133	PROT (KV-E2921Ø ONLY)
45B60L-F	AC RECT
GP10ØPKG23	REF RECT
P08ØPKG23	SMPS DRIVE 1
P08ØPKG23	SMPS DRIVE 2
P08ØPKG23	SMPS DRIVE 3
GP10ØPKG23	+12V RECT
GP10ØPKG23	REF RECT
RC25-06S	PLUSE CLIPPER
TZJ33A	FAST ON/OFF
TU-12S	+14V RECT
RØ29-Ø8J	+135VRECT
TU-12S	+7V RECT
GP15JPKG23	AF V RECT-1
GP15JPKG23	AF V RECT-2
TZJ6.2B	+12V REG
SS133	PROT
TZJ5.6B	+12V REF
TZJ33A	FAST ON/OFF-2
A204K	+12V REF
TZJ33A	FAST ON/OFF-3
SS133	PROT
SS133	DECOUPING STBY
SS133	DECOUPING ØTBY
TZJ15A	+12V REF
GP10ØPKG23	+27V REF
GP10ØPKG23	+20ØV REF
GPØ2-17	G2 REF
P08ØPKG23	H CENTER-1
P08ØPKG23	H CENTER-2
RCØ6-15S	H ØAMPER-1
RCØ6-15S	H ØAMPER-2
RØ29-Ø8J	PIN ØAMPER

• WAVEFORMS D BOARD

①  1.2Vp-p ( H )	②  4.0Vp-p ( V )	③  4.8Vp-p ( V )
④  4.0Vp-p ( V )	⑤  4.0Vp-p ( H )	⑥  11.0Vp-p ( H )
⑦  14.0Vp-p ( H )	⑧  3.6Vp-p ( H )	⑨  0.1Vp-p (503KHz)
⑩  1.4Vp-p ( H )	⑪  0.7Vp-p ( V )	⑫  2.2Vp-p ( V )
⑬  29.0Vp-p ( V )	⑭  48.0Vp-p ( V )	⑮  3.2Vp-p ( H )
⑯  250Vp-p ( H )	⑰  16.0Vp-p ( H )	⑱  900Vp-p ( H )
⑲  180Vp-p ( H )	⑳  7.0Vp-p ( V )	㉑  48.0Vp-p ( V )
㉒  1.4Vp-p ( H )	㉓  2.8Vp-p (12MHz)	

D BOARD \*MARK

	KV-E2521Ø	KV-E2921Ø
C519	0.47MF	0.33MF
C815	1MF	0.82MF
C817	0.015MF	0.017MF
C821	680P 2K	470P 2K
Ø506	ØA204K	-
Ø514	JW	1SS133
Ø515	-	1SS133
Ø-88	-	3P
JW202	-	X
JW203	X	-
JW204	X	-
JW205	-	X
JW206	X	-
JW207	X	-
JW229	X	-
JW216	X	-
L801	-	3.9MMH
R525	1K	-
R561	-	270K
R570	-	680
R607	4.7K	5.6K
R812	68K	51K
R5503	4.7	10
R5506	-	12K

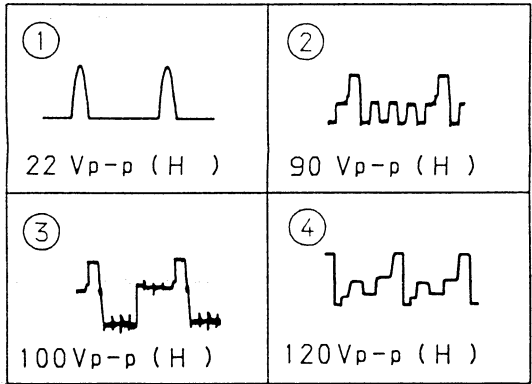
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× TO BE MOUNTED



C BOARD

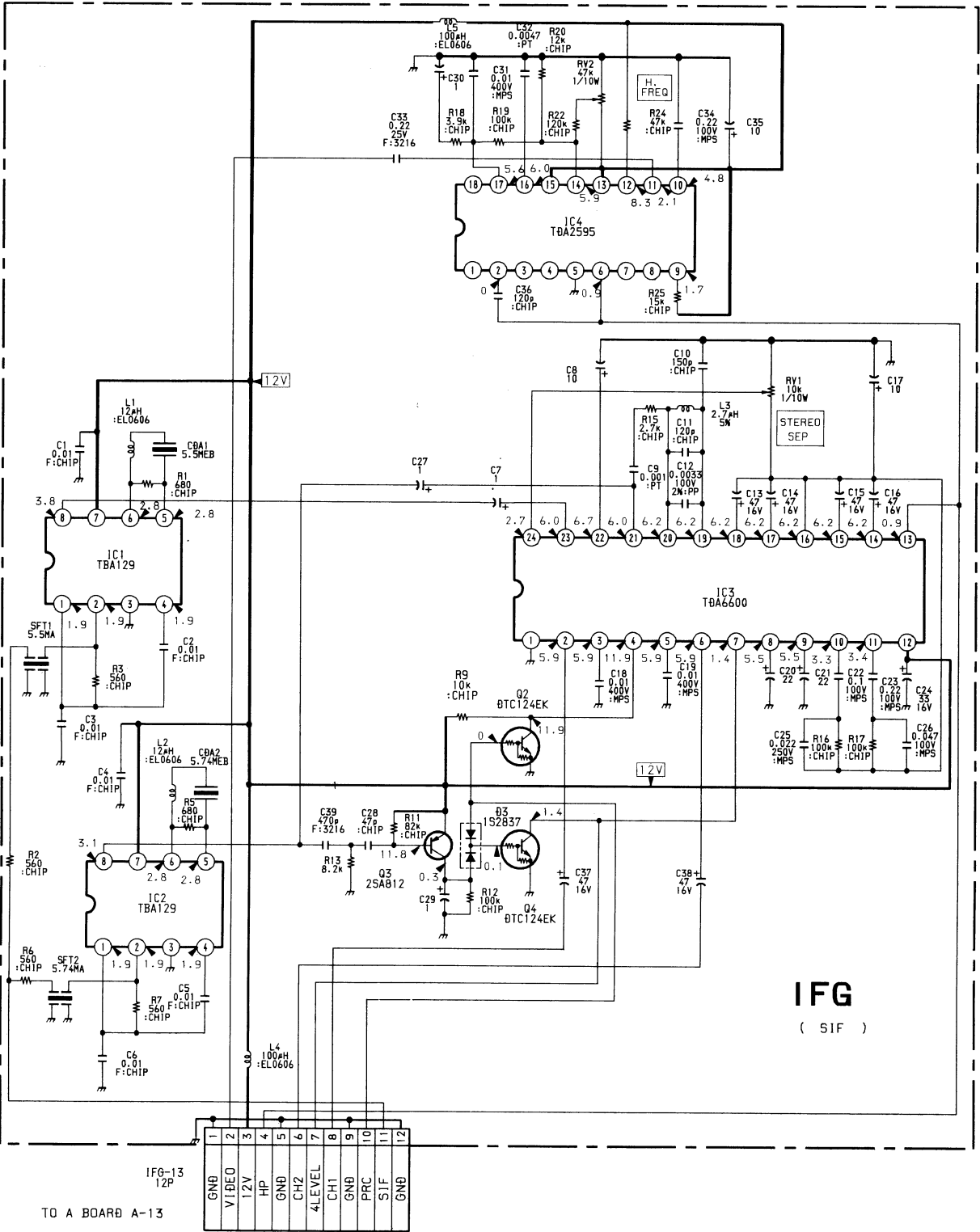
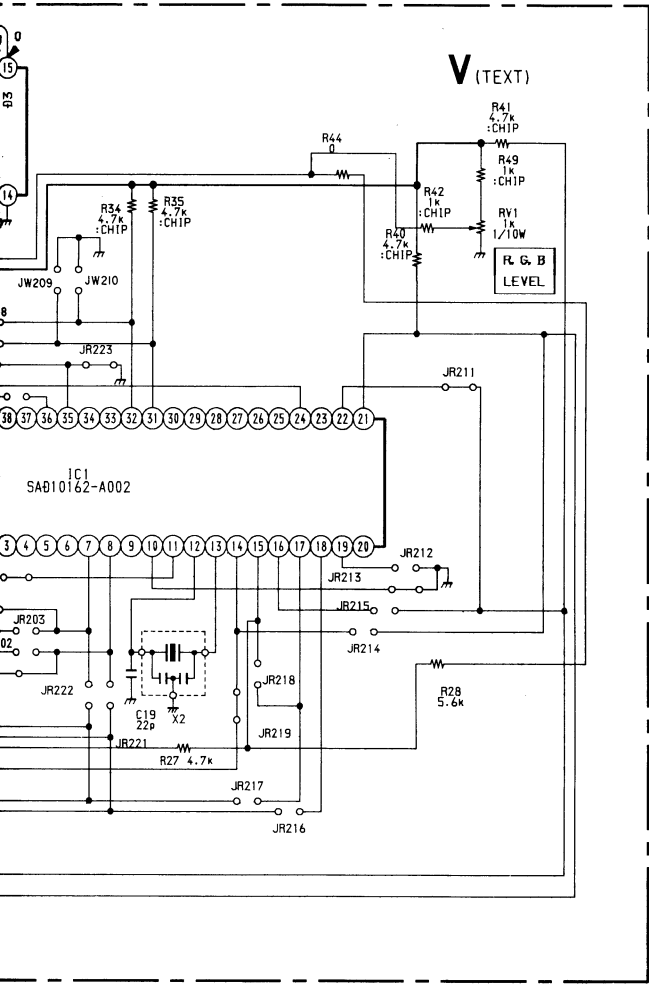
Q702	JC501	R DRIVE
Q703	BF871	R OUT
Q704	2SA10910	ACD MEASURING
Q705	JC501	G DRIVE
Q706	BF871	G OUT
Q707	2SA10910	ACD MEASURING
Q708	JC501	B DRIVE
Q709	BF871	B OUT
Q710	2SA10910	ACD MEASURING
Ø701	MTZJ9.1C	PROTECT
Ø702	1SS133	PROTECT
Ø703	1SS133	PROTECT
Ø704	1SS133	PROTECT
Ø705	1SS133	PROTECT
Ø706	1SS133	PROTECT
Ø707	1SS133	PROTECT
Ø708	1SS133	PROTECT
Ø709	1SS133	PROTECT
Ø710	1SS133	PROTECT
Ø711	RGP10G	HEATING VOLTAGE REC
Ø713	1SS133	PROTECT

• WAVEFORMS C BOARD



C BOARD \*MARK

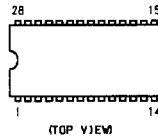

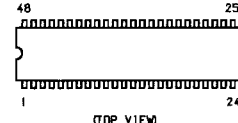
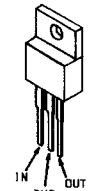

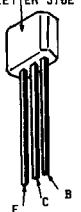
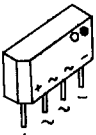
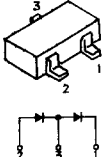
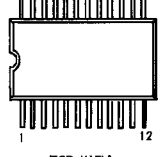
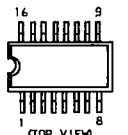
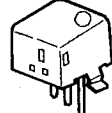
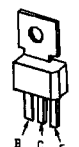


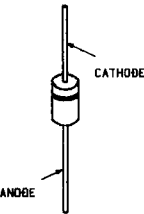
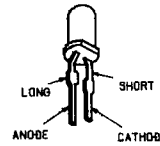
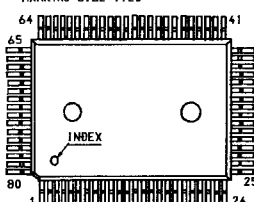
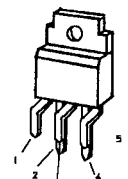
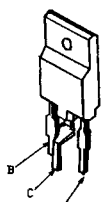


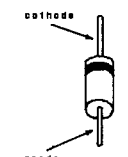
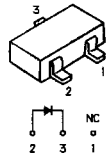
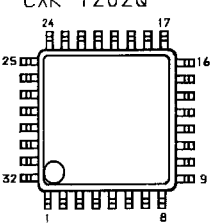
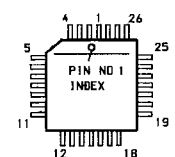
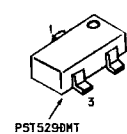

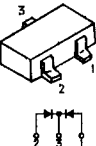
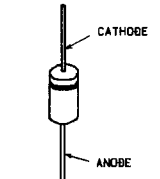
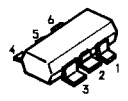
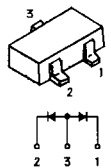
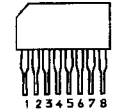
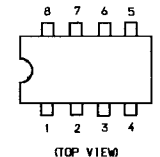
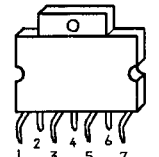
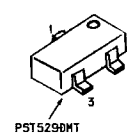
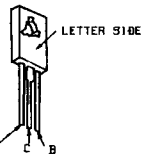
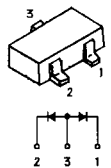
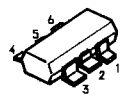
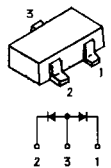
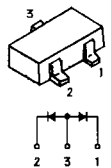
	KV-E2521Ø	KV-E2921Ø
C-71	2P	3P
R737	820K	470K



[SIF]

## 60

5-4. SEMICONDUCTORS


<p>CXA1114P SBA20162-A002 TDA4580-V6 TDA6200 TEA2028B</p>  <p>(TOP VIEW)</p>	<p>FCB61C65-70P SBA20560-AE1C</p>  <p>(TOP VIEW)</p>	<p>SAA5246E</p>  <p>(TOP VIEW)</p>	<p>TEA7605 TYA7812CT μPC24M05HF</p>  <p>IN OUT GND</p>	<p>ØTC144ES</p>  <p>E C B</p>	<p>2SC2785-HFE</p> <p>LETTER SIDE</p>  <p>E C B</p>	<p>Ø4SB60L-F</p>  <p>+</p>	<p>HZS36NB4 MTZJ-T-77-13B MTZJ-T-77-15A MTZJ-T-77-33A MTZJ-T77-6.2B MTZJ-T-77-10C MTZJ-13B MTZJ-15A MTZJ-3.9 MTZJ-33A MTZJ-6.2B MTZJN-10C RØ5.6ESB2 RØ6.8ESB2 RØ7.5ESB2 RØ9.1ESB3 VZ4.7BSC 1SS119</p>	<p>1SS226</p>  <p>3 2 1</p>
<p>CXD1175AM CXD1175M-T5</p>  <p>(TOP VIEW)</p>	<p>HCF4052BM</p>  <p>(TOP VIEW)</p>	<p>SBX1610-11</p>  <p>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000</p>	<p>BF871</p>  <p>B C E</p>	<p>2SA1091-X</p>  <p>E C B</p>	<p>2SØ2096-EF</p>  <p>B C E</p>	<p>ERC06-15S RU-3AM</p>  <p>CATHODE ANODE</p>	<p>MA3056 MA3056-H MA3110M-TX RØ11M-B2 RØ3.6M-B2 RØ5.6M-B2 RØ6.8M-B2</p>	<p>LØ-201VR</p>  <p>LONG SHORT ANODE CATHODE</p>
<p>CXD2011Q CXK1202Q-T4</p> <p>MARKING SIDE VIEW</p>  <p>INDEX</p>	<p>MC14053BCP PCF8574 TC4051BPHB TDA4660T TDA8442-N3 TEA2260 μPD4053BC</p>	<p>TDA2050</p>  <p>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000</p>	<p>BU508AS1</p>  <p>B C E</p>	<p>2SA1220A-P 2SØ789-3TZ 2SØ789-34</p>  <p>E C B</p>	<p>CTU-12S</p>  <p>1 2 3</p>	<p>ERØ29-Ø8J</p>  <p>CATHODE ANODE</p>	<p>MA3056 MA3056-H MA3110M-TX RØ11M-B2 RØ3.6M-B2 RØ5.6M-B2 RØ6.8M-B2</p>	<p>UØ5G</p>  <p>3 2 1 NC 0 1</p>
<p>CXK-1202Q</p>  <p>25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1</p>	<p>RC4558P SBA2546 TEA2014A TEA2031A</p>	<p>TDA4650WP</p>  <p>PIN NO 1 INDEX</p>	<p>ØTA144EK ØTC114EK ØTC124EK ØTC144EK 2SA1162G 2SB1295-UL6 2SC2412K 2SC2412K-QR 2SC2412K-R</p>  <p>PST52ØØMT</p>	<p>2SB734-34 2SØ774-34</p>  <p>E C B</p>	<p>ØAN212K ØAN212K-T146 MA152WK</p>  <p>3 2 1</p>	<p>ES1F</p>  <p>CATHODE ANODE</p>	<p>1MN10</p>  <p>4 3 2 1</p>	<p>ØAP202K EGP20G 1S2836</p>  <p>3 2 1</p>
<p>CX20061</p>  <p>1 2 3 4 5 6 7 8</p>	 <p>(TOP VIEW)</p>	<p>TDA8170</p>  <p>1 2 3 4 5 6 7</p>	<p>PST52ØØMT</p>  <p>1 2 3</p>	<p>2SC2688-LK</p>  <p>LETTER SIDE E C B</p>	 <p>3 2 1</p>	<p>1MN10</p>  <p>4 3 2 1</p>	<p>ØAP202K EGP20G 1S2836</p>  <p>3 2 1</p>	<p>ØAP202K EGP20G 1S2836</p>  <p>3 2 1</p>



SECTION 6  
EXPLODED VIEWS

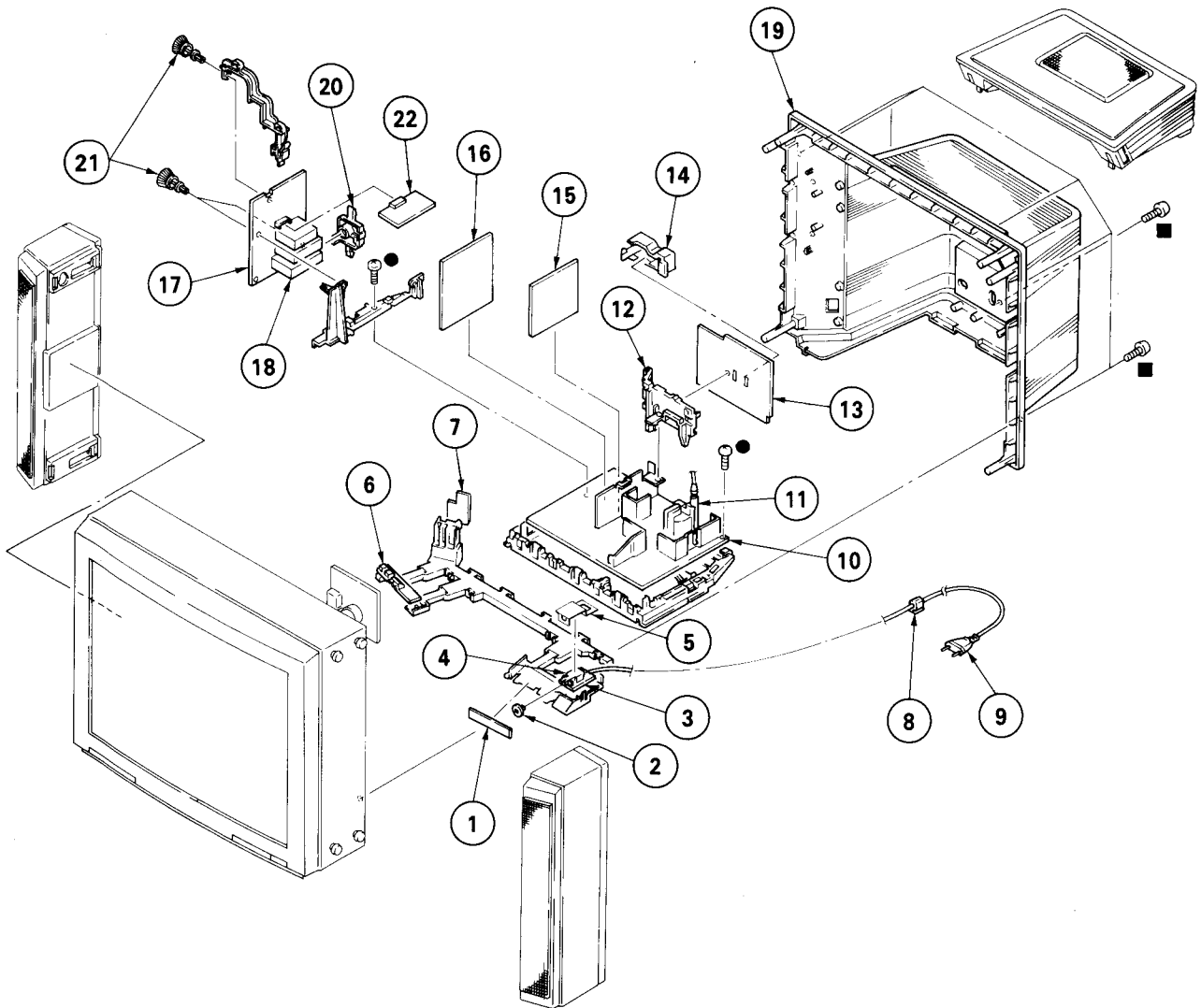
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  are critical for safety.  
Replace only with part number specified.


(1) CHASSIS

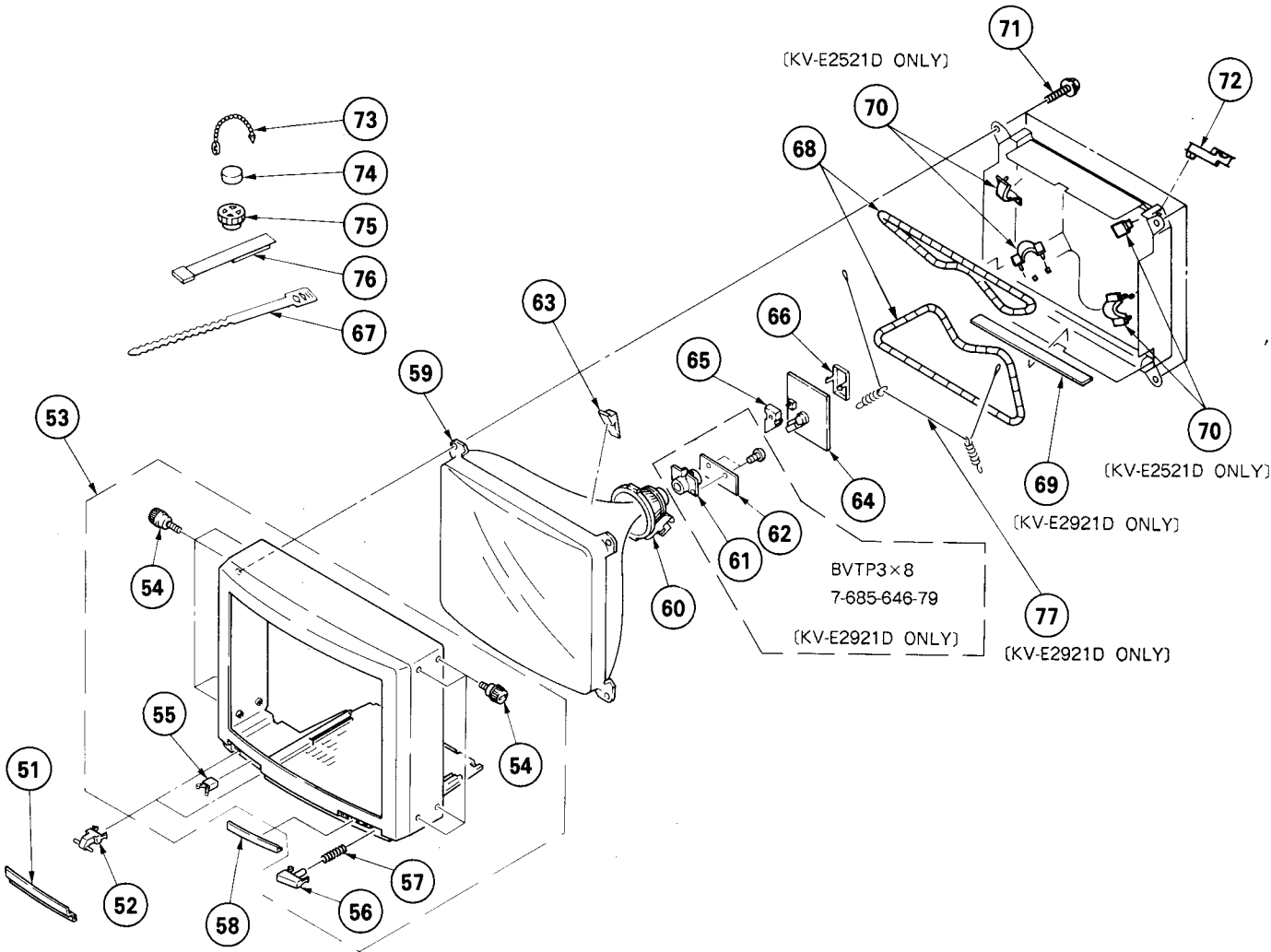
- : BVTP3×12 7-685-648-79
- : BVTP4×16 7-685-663-79



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*1-638-392-11	H2 BOARD		12	*4-386-624-11	BRACKET, J	
2	4-201-011-01	CAP. SWITCH (KV-E2521D ONLY)		13	A-1651-018-A	J1 BOARD, COMPLETE (KV-E2521D ONLY)	
3	4-386-611-01	COVER, SWITCH (KV-E2921D ONLY)		14	A-1651-020-A	J1 BOARD, COMPLETE (KV-E2921D ONLY)	
4	*1-638-390-11	F BOARD		15	4-200-014-01	BRACKET, TERMINAL	
5	★1-571-433-11	SWITCH, PUSH (AC POWER)		16	A-1645-013-A	V BOARD, COMPLETE	
6	4-200-274-01	COVER, POWER SWITCH		17	A-1621-013-A	B1 BOARD, COMPLETE (KV-E2521D ONLY)	
7	*1-638-391-11	H1 BOARD		18	A-1621-015-A	B1 BOARD, COMPLETE (KV-E2921D ONLY)	
8	*1-638-393-11	J2 BOARD		19	A-1632-022-A	A BOARD, COMPLETE	
9	★4-389-201-02	HOLDER, AC CORD		20	★1-465-301-11	TUNER, ET (UV-816(PLL))	
10	★1-590-501-11	CORD, POWER(WITH NOISE FILTER)		21	4-201-017-02	COVER, REAR (KV-E2521D ONLY)	
11	A-1642-031-A	D BOARD, COMPLETE (KV-E2521D ONLY)		22	4-200-026-04	COVER, REAR (KV-E2921D ONLY)	
	A-1642-032-A	D BOARD, COMPLETE (KV-E2921D ONLY)			*4-386-617-01	HOLDER, TERMINAL	
	★1-439-416-11	TRANSFORMER ASSY, FLYBACK (UX-1600)			4-386-618-01	RIVET, T TYPE	
					A-1654-004-A	IFG BOARD, COMPLETE	

(2) PICTURE TUBE

The components identified by shading and mark  are critical for safety.  
Replace only with part number specified.



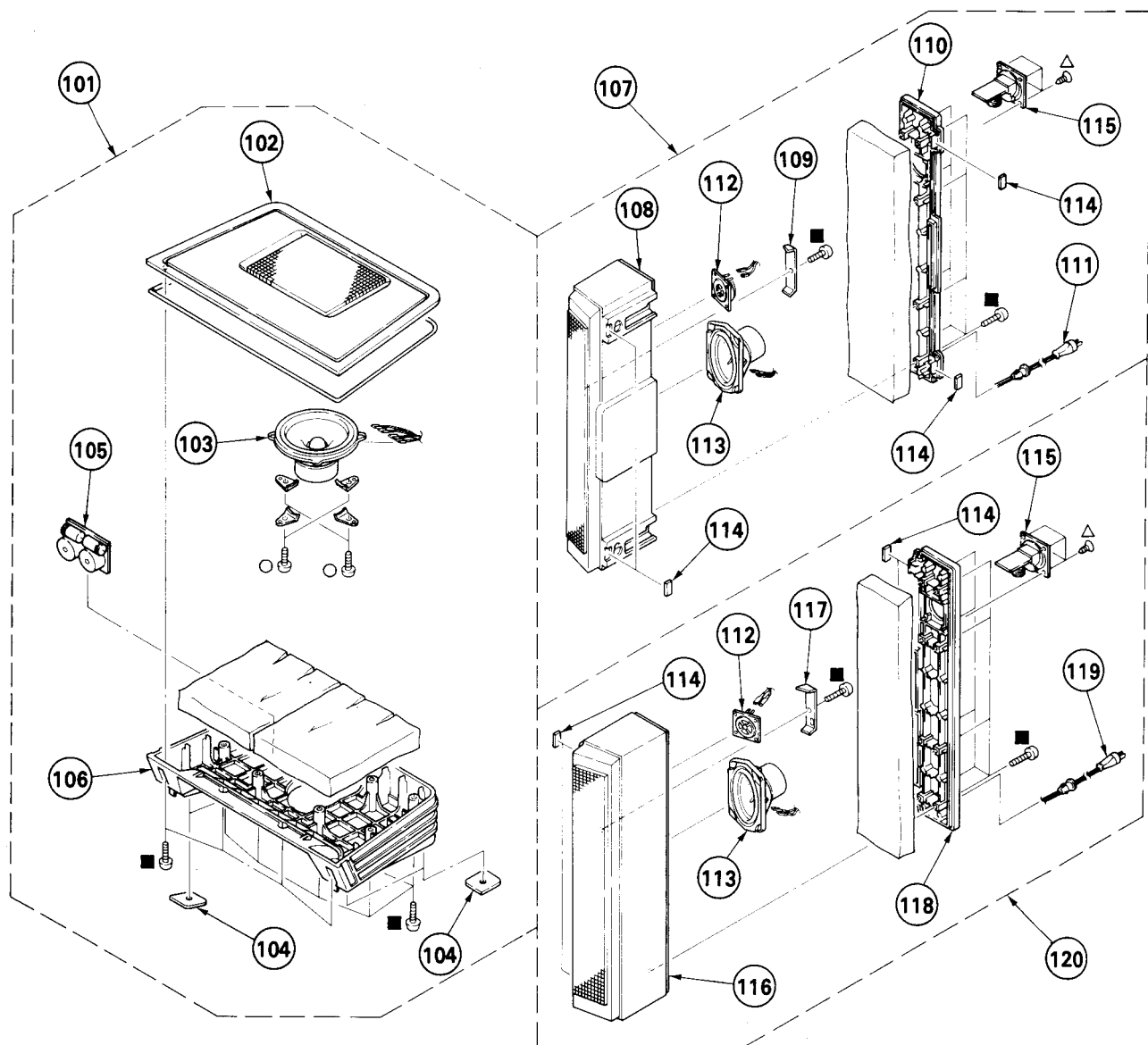
REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4201-006-5	DOOR ASSY, CONTROL (KV-E2521D ONLY)		62	*1-634-193-11	VM BOARD (KV-E2921D ONLY)	
52	X-4200-001-5	LID ASSY, CONTROL (KV-E2921D ONLY)		63	3-704-495-01	SPACER, DY	
53	3-703-035-11	SHAFT, LID		64	*A-1638-011-A	C BOARD, COMPLETE (KV-E2521D ONLY)	
	X-4201-005-5	CABINET ASSY (WITH BEZEL ASSY) (KV-E2521D ONLY)	54-57	65	*A-1638-013-A	C BOARD, COMPLETE (KV-E2921D ONLY)	
	X-4200-008-8	CABINET ASSY (WITH BEZEL ASSY) (KV-E2921D ONLY)	54-57	66	*4-379-167-01	COVER (MAIN), CV	
54	X-4374-104-1	SCREW (B) ASSY, ORNAMENTAL		67	*4-379-160-01	COVER (REAR LID), CV	
55	4-392-036-01	CATCHER, PUSH		68	3-701-007-00	BAND, BINDING	
56	4-200-013-01	BUTTON, POWER		69	★1-460-091-11	COIL, DEGAUSS (KV-E2521D ONLY)	
57	4-329-112-21	SPRING		70	★1-426-398-11	COIL, DEMAGNETIZATION (KV-E2921D ONLY)	
58	4-200-017-02	WINDOW, ORNAMENTAL		71	4-389-291-01	CUSHION (KV-E2921D ONLY)	
59	★8-733-224-05	PICTURE TUBE (A59JWC60X) (KV-E2521D ONLY)		72	*4-385-916-01	HOLDER (D) (KV-E2521D ONLY)	
60	★8-733-824-05	PICTURE TUBE (A68JYK60X) (KV-E2921D ONLY)		73	4-373-263-01	SCREW (M), PT	
61	★1-451-311-21	DEFLECTION YOE (Y25FXA) (KV-E2521D ONLY)		74	*4-387-216-01	HOLDER, LEAD	
	★1-451-313-21	DEFLECTION YOE (Y29FXA) (KV-E2921D ONLY)		75	4-308-870-00	CLIP, LEAD WIRE	
	★1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308) (KV-E2921D ONLY)		76	1-452-032-00	MAGNET, DISK; 10MM $\phi$	
				77	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM $\phi$	
					X-4387-214-1	PERMALLOY ASSY, CORRECTION	
					4-369-318-00	SPRING, TENSION (KV-E2921D ONLY)	

### (3) SPEAKER

■ : BVTP4×16 7-685-663-79

○ : BVTP4×10 7-685-660-79

△ : KTP3×12 7-685-248-19



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
101	*A-1678-001-A	BOX ASSY, WOOFER		102-106	111	1-575-025-11	CORD, SPEAKER (WITH PLUG)
102	X-4200-004-2	BOARD ASSY, BAFFLE			112	1-544-203-11	SPEAKER
103	1-544-192-11	SPEAKER			113	1-544-204-11	SPEAKER
104	4-200-009-01	CUSHION, FOOT			114	4-200-006-01	CUSHION, FOOT
105	1-236-549-11	NETWORK, DIVIDING			115	1-236-510-21	NETWORK, DIVIDING
106	4-200-027-01	BOX, WOOFER			116	X-4201-004-1	BOX ASSY (RIGHT), SIDE (KV-E2521D ONLY)
107	*A-1678-012-A	BOX ASSY (LEFT), SPEAKER			117	X-4200-005-1	BOX ASSY (R), SIDE (KV-E2921D ONLY)
		(KV-E2521D ONLY)			118	*4-200-004-02	BRACKET (R), SPEAKER
	*A-1678-005-A	BOX ASSY (LEFT), SPEAKER			119	4-201-006-01	PANEL (RIGHT), REAR (KV-E2521D ONLY)
		(KV-E2921D ONLY)			120	4-200-029-01	PANEL (R), REAR (KV-E2921D ONLY)
108	X-4201-003-1	BOX ASSY (LEFT), SIDE (KV-E2521D ONLY)				1-575-024-11	CORD, SPEAKER (WITH PLUG)
	X-4200-006-1	BOX ASSY (L), SIDE (KV-E2921D ONLY)				*A-1678-010-A	BOX ASSY (RIGHT), SPEAKER
109	*4-200-003-02	BRACKET (L), SPEAKER					112-119
110	4-201-007-01	PANEL (LEFT), REAR (KV-E2521D ONLY)				*A-1678-003-A	BOX ASSY (RIGHT), SPEAKER
	4-200-030-01	PANEL (L), REAR (KV-E2921D ONLY)					112-119
							(KV-E2921D ONLY)



**B1**

## SECTION 7 ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

• Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS

• MF :  $\mu$ F, PF :  $\mu$ F

COILS

• MMH : mH, UH :  $\mu$ H

RESISTORS

• All resistors are in ohms  
• F : nonflammable

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
A-1621-013-A	B1 BOARD, COMPLETE (KV-E2521D ONLY)	*****		C344	1-124-791-11	ELECT 1MF	20% 50V
A-1621-015-A	B1 BOARD, COMPLETE (KV-E2921D ONLY)	*****		C345	1-137-094-11	FILM 0.047MF	10% 100V
*1-565-393-11	CONNECTOR, BOARD TO BOARD			C346	1-137-033-11	FILM 0.33MF	10% 100V
*1-568-878-51	PIN, CONNECTOR 3P (KV-E2921D ONLY)			C347	1-137-098-11	FILM 0.1MF	10% 100V
*1-568-881-51	PIN, CONNECTOR 6P			C348	1-137-102-11	FILM 0.022MF	10% 250V
<CAPACITOR>				C349	1-137-102-11	FILM 0.022MF	10% 250V
C301	1-137-031-11	FILM 0.22MF	10% 100V	C350	1-124-902-00	ELECT 0.47MF	20% 50V
C302	1-137-031-11	FILM 0.22MF	10% 100V	C351	1-137-102-11	FILM 0.022MF	10% 250V
C303	1-124-122-11	ELECT 100MF	20% 50V	C352	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C304	1-137-031-11	FILM 0.22MF	10% 100V	C353	1-126-101-11	ELECT 100MF	20% 16V
C305	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	C354	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C306	1-124-902-00	ELECT 0.47MF	20% 50V	C355	1-126-101-11	ELECT 100MF	20% 16V
C307	1-124-902-00	ELECT 0.47MF	20% 50V	C357	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C308	1-124-902-00	ELECT 0.47MF	20% 50V	C358	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C309	1-124-902-00	ELECT 0.47MF	20% 50V	C360	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C310	1-137-098-11	FILM 0.1MF	10% 100V	C361	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C311	1-137-098-11	FILM 0.1MF	10% 100V	C363	1-163-033-00	CERAMIC CHIP 0.022MF	50V
C312	1-124-902-00	ELECT 0.47MF	20% 50V	C371	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C313	1-124-902-00	ELECT 0.47MF	20% 50V	C372	1-124-477-11	ELECT 47MF	20% 16V
C314	1-124-902-00	ELECT 0.47MF	20% 50V	C373	1-124-477-11	ELECT 47MF	20% 16V
C315	1-124-791-11	ELECT 1MF	20% 50V	C374	1-163-090-00	CERAMIC CHIP 7PF	0.25PF 50V
C316	1-124-927-11	ELECT 4.7MF	20% 50V	C375	1-163-090-00	CERAMIC CHIP 7PF	0.25PF 50V
C317	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C376	1-124-034-51	ELECT 33MF	20% 16V
C318	1-124-927-11	ELECT 4.7MF	20% 50V	C377	1-124-119-00	ELECT 330MF	20% 16V
C319	1-124-927-11	ELECT 4.7MF	20% 50V	C378	1-124-034-51	ELECT 33MF	20% 16V
C320	1-124-910-11	ELECT 47MF	20% 50V	C379	1-163-090-00	CERAMIC CHIP 7PF	0.25PF 50V
C321	1-137-027-11	FILM 0.82MF	10% 63V	C380	1-163-090-00	CERAMIC CHIP 7PF	0.25PF 50V
C322	1-163-077-00	CERAMIC CHIP 0.1MF	50V	C381	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
C323	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C382	1-163-121-00	CERAMIC CHIP 150PF	5% 50V
C324	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C383	1-163-197-00	CERAMIC CHIP 470PF	5% 50V
C325	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C384	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
C326	1-124-910-11	ELECT 47MF	20% 50V	C385	1-163-093-00	CERAMIC CHIP 10PF	5% 50V
C327	1-124-910-11	ELECT 47MF	20% 50V	C386	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C328	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C387	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
C329	1-163-123-00	CERAMIC CHIP 180PF	5% 50V	C388	1-164-232-11	CERAMIC CHIP 0.01MF	50V
C330	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C389	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
C331	1-137-098-11	FILM 0.1MF	10% 100V	C390	1-123-875-11	ELECT 10MF	20% 50V
C332	1-137-098-11	FILM 0.1MF	10% 100V	C391	1-123-875-11	ELECT 10MF	20% 50V
C333	1-163-103-00	CERAMIC CHIP 27PF	5% 50V	C392	1-123-875-11	ELECT 10MF	20% 50V
C335	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	C393	1-126-101-11	ELECT 100MF	20% 16V
C337	1-163-103-00	CERAMIC CHIP 27PF	5% 50V	C394	1-126-101-11	ELECT 100MF	20% 16V
C338	1-137-102-11	FILM 0.022MF	10% 250V	C395	1-126-101-11	ELECT 100MF	20% 16V
C339	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C396	1-126-101-11	ELECT 100MF	20% 16V
C340	1-126-103-11	ELECT 470MF	20% 16V	C397	1-124-791-11	ELECT 1MF	20% 50V
C341	1-164-232-11	CERAMIC CHIP 0.01MF	50V	C398	1-123-875-11	ELECT 10MF	20% 50V
C342	1-124-791-11	ELECT 1MF	20% 50V	C399	1-163-038-00	CERAMIC CHIP 0.1MF	25V
C343	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C1301	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
				C1302	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
				C1303	1-163-038-00	CERAMIC CHIP 0.1MF	25V
				C1304	1-123-875-11	ELECT 10MF	20% 50V
				C1305	1-126-101-11	ELECT 100MF	20% 16V

**B1**

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# B1

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q329	8-729-216-22	TRANSISTOR 2SA1162-G		R312	1-216-019-00	METAL GLAZE 56 5% 1/10W	
Q330	8-729-901-78	TRANSISTOR 2SC2412K-R		R313	1-216-019-00	METAL GLAZE 56 5% 1/10W	
Q331	8-729-216-22	TRANSISTOR 2SA1162-G		R314	1-216-019-00	METAL GLAZE 56 5% 1/10W	
Q332	8-729-216-22	TRANSISTOR 2SA1162-G		R315	1-216-023-00	METAL GLAZE 82 5% 1/10W	
Q333	8-729-901-00	TRANSISTOR DTC124EK		R316	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
Q334	8-729-901-00	TRANSISTOR DTC124EK		R317	1-216-033-00	METAL GLAZE 220 5% 1/10W	
Q335	8-729-901-78	TRANSISTOR 2SC2412K-R		R318	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q336	8-729-901-78	TRANSISTOR 2SC2412K-R		R319	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q337	8-729-901-78	TRANSISTOR 2SC2412K-R		R320	1-216-198-00	METAL GLAZE 1K 5% 1/8W	
Q338	8-729-216-22	TRANSISTOR 2SA1162-G		R321	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q339	8-729-901-78	TRANSISTOR 2SC2412K-R		R322	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q340	8-729-901-78	TRANSISTOR 2SC2412K-R		R323	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
Q341	8-729-901-78	TRANSISTOR 2SC2412K-R		R324	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q342	8-729-901-78	TRANSISTOR 2SC2412K-R		R325	1-216-033-00	METAL GLAZE 220 5% 1/10W	
Q343	8-729-901-78	TRANSISTOR 2SC2412K-R		R326	1-216-009-00	METAL GLAZE 22 5% 1/10W	
Q344	8-729-901-78	TRANSISTOR 2SC2412K-R		R327	1-216-009-00	METAL GLAZE 22 5% 1/10W	
Q345	8-729-901-78	TRANSISTOR 2SC2412K-R		R328	1-216-009-00	METAL GLAZE 22 5% 1/10W	
Q346	8-729-901-78	TRANSISTOR 2SC2412K-R		R329	1-216-031-00	METAL GLAZE 180 5% 1/10W	
Q347	8-729-901-78	TRANSISTOR 2SC2412K-R		R330	1-216-031-00	METAL GLAZE 180 5% 1/10W	
Q348	8-729-901-00	TRANSISTOR DTC124EK		R331	1-216-031-00	METAL GLAZE 180 5% 1/10W	
Q350	8-729-901-78	TRANSISTOR 2SC2412K-R		R332	1-216-182-00	METAL GLAZE 220 5% 1/8W	
Q352	8-729-216-22	TRANSISTOR 2SA1162-G		R333	1-216-033-00	METAL GLAZE 220 5% 1/10W	
Q353	8-729-901-78	TRANSISTOR 2SC2412K-R		R335	1-216-101-00	METAL GLAZE 150K 5% 1/10W	
Q354	8-729-901-78	TRANSISTOR 2SC2412K-R		R336	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q355	8-729-901-78	TRANSISTOR 2SC2412K-R		R337	1-216-093-00	METAL GLAZE 68K 5% 1/10W	
Q356	8-729-216-22	TRANSISTOR 2SA1162-G		R338	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
Q357	8-729-216-22	TRANSISTOR 2SA1162-G		R339	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
Q358	8-729-901-78	TRANSISTOR 2SC2412K-R		R340	1-216-103-00	METAL GLAZE 180K 5% 1/10W	
Q359	8-729-216-22	TRANSISTOR 2SA1162-G		R341	1-216-115-00	METAL GLAZE 560K 5% 1/10W	
Q360	8-729-901-78	TRANSISTOR 2SC2412K-R		R342	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
Q361	8-729-901-78	TRANSISTOR 2SC2412K-R		R343	1-216-043-00	METAL GLAZE 560 5% 1/10W	(KV-E2521D ONLY)
Q362	8-729-901-78	TRANSISTOR 2SC2412K-R			1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	(KV-E2921D ONLY)
Q363	8-729-901-78	TRANSISTOR 2SC2412K-R		R344	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
Q364	8-729-216-22	TRANSISTOR 2SA1162-G		R345	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
Q365	8-729-216-22	TRANSISTOR 2SA1162-G		R346	1-216-033-00	METAL GLAZE 220 5% 1/10W	
Q366	8-729-901-78	TRANSISTOR 2SC2412K-R		R347	1-216-121-00	METAL GLAZE 1M 5% 1/10W	
Q367	8-729-901-78	TRANSISTOR 2SC2412K-R		R348	1-216-001-00	METAL GLAZE 10 5% 1/10W	
Q368	8-729-901-78	TRANSISTOR 2SC2412K-R		R349	1-216-001-00	METAL GLAZE 10 5% 1/10W	
Q369	8-729-901-78	TRANSISTOR 2SC2412K-R		R350	1-216-184-00	METAL GLAZE 270 5% 1/8W	
Q370	8-729-901-78	TRANSISTOR 2SC2412K-R		R351	1-216-184-00	METAL GLAZE 270 5% 1/8W	
Q371	8-729-901-78	TRANSISTOR 2SC2412K-R		R352	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
Q372	8-729-901-78	TRANSISTOR 2SC2412K-R		R353	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
Q373	8-729-901-00	TRANSISTOR DTC124EK		R354	1-216-037-00	METAL GLAZE 330 5% 1/10W	
Q1301	8-729-901-00	TRANSISTOR DTC124EK		R355	1-216-033-00	METAL GLAZE 220 5% 1/10W	
Q1302	8-729-901-78	TRANSISTOR 2SC2412K-R		R356	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q1303	8-729-901-00	TRANSISTOR DTC124EK		R357	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
<RESISTOR>				R358	1-216-037-00	METAL GLAZE 330 5% 1/10W	
JR302	1-216-295-00	METAL GLAZE 0 5% 1/10W		R359	1-216-041-00	METAL GLAZE 470 5% 1/10W	
JR304	1-216-296-00	METAL GLAZE 0 5% 1/8W		R361	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
JR305	1-216-295-00	METAL GLAZE 0 5% 1/10W		R362	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
JR390	1-216-295-00	METAL GLAZE 0 5% 1/10W		R363	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
JR391	1-216-295-00	METAL GLAZE 0 5% 1/10W		R364	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R301	1-216-033-00	METAL GLAZE 220 5% 1/10W		R365	1-216-035-00	METAL GLAZE 270 5% 1/10W	
R302	1-216-033-00	METAL GLAZE 220 5% 1/10W		R366	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R303	1-216-033-00	METAL GLAZE 220 5% 1/10W		R367	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
R304	1-216-081-00	METAL GLAZE 22K 5% 1/10W		R368	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R305	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W		R369	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
R306	1-216-035-00	METAL GLAZE 270 5% 1/10W		R370	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
R307	1-216-097-00	METAL GLAZE 100K 5% 1/10W		R371	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R309	1-216-025-00	METAL GLAZE 100 5% 1/10W		R372	1-216-033-00	METAL GLAZE 220 5% 1/10W	
R310	1-216-025-00	METAL GLAZE 100 5% 1/10W		R373	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
R311	1-216-025-00	METAL GLAZE 100 5% 1/10W					

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R374	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1339	1-216-039-00	METAL GLAZE	390 5% 1/10W
R375	1-216-043-00	METAL GLAZE	560 5% 1/10W	R1340	1-216-025-00	METAL GLAZE	100 5% 1/10W
R376	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1341	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W
R377	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1342	1-216-025-00	METAL GLAZE	100 5% 1/10W
R378	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1343	1-216-043-00	METAL GLAZE	560 5% 1/10W
R379	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1344	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R380	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1345	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R381	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1346	1-216-025-00	METAL GLAZE	100 5% 1/10W
R382	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R1347	1-216-025-00	METAL GLAZE	100 5% 1/10W
R383	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1348	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R384	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R1349	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R385	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1350	1-216-039-00	METAL GLAZE	390 5% 1/10W
R386	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R1351	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R387	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1352	1-216-041-00	METAL GLAZE	470 5% 1/10W
R388	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R1353	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R389	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1354	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R390	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1355	1-216-045-00	METAL GLAZE	680 5% 1/10W
R391	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1356	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R392	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1357	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R393	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1358	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R394	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1359	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R395	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1360	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R396	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1361	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R397	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R1362	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R398	1-216-035-00	METAL GLAZE	270 5% 1/10W	R1363	1-216-039-00	METAL GLAZE	390 5% 1/10W
R399	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1364	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R403	1-216-035-00	METAL GLAZE	270 5% 1/10W	R1365	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R1301	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1366	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R1302	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1367	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R1303	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R1368	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1305	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R1369	1-216-031-00	METAL GLAZE	180 5% 1/10W
R1308	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1370	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1371	1-216-031-00	METAL GLAZE	180 5% 1/10W
			(KV-E2521D ONLY)	R1372	1-216-047-00	METAL GLAZE	820 5% 1/10W
			(KV-F2921D ONLY)	R1373	1-216-035-00	METAL GLAZE	270 5% 1/10W
R1309	1-216-023-00	METAL GLAZE	82 5% 1/10W	R1374	1-216-202-00	METAL GLAZE	1.5K 5% 1/8W
R1310	1-216-047-00	METAL GLAZE	820 5% 1/10W	R1375	1-216-208-00	METAL GLAZE	2.7K 5% 1/8W
R1311	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1376	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R1312	1-216-045-00	METAL GLAZE	680 5% 1/10W	R1377	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R1313	1-216-043-00	METAL GLAZE	560 5% 1/10W	R1378	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R1314	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1379	1-216-748-11	METAL GLAZE	39K 5% 1/10W
R1315	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1380	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R1316	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1381	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1319	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1382	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R1320	1-216-641-11	METAL CHIP	390 0.50% 1/10W	R1383	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R1321	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1384	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R1322	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1385	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R1323	1-216-643-11	METAL CHIP	470 0.50% 1/10W	R1386	1-216-047-00	METAL GLAZE	820 5% 1/10W
R1324	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1387	1-216-031-00	METAL GLAZE	180 5% 1/10W
R1325	1-216-037-00	METAL GLAZE	330 5% 1/10W	R1388	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1326	1-216-045-00	METAL GLAZE	680 5% 1/10W	R1389	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1327	1-216-029-00	METAL GLAZE	150 5% 1/10W	R1390	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R1328	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1391	1-216-208-00	METAL GLAZE	2.7K 5% 1/8W
R1329	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1392	1-216-047-00	METAL GLAZE	820 5% 1/10W
R1330	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1393	1-216-047-00	METAL GLAZE	820 5% 1/10W
R1331	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1394	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1332	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1395	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R1333	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1396	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1334	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1397	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1335	1-216-043-00	METAL GLAZE	560 5% 1/10W	R1398	1-216-001-00	METAL GLAZE	10 5% 1/10W
R1336	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1399	1-216-029-00	METAL GLAZE	150 5% 1/10W
R1337	1-216-657-11	METAL CHIP	1.8K 0.50% 1/10W				
R1338	1-216-085-00	METAL GLAZE	33K 5% 1/10W				

# B1 F A C

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

REF.NO. PART NO. DESCRIPTION

## <VARIABLE RESISTOR>

RV301 1-238-012-11 RES, ADJ, CARBON 1K

## <CRYSTAL>

X301 1-567-307-11 OSCILLATOR, CRYSTAL  
X302 1-567-131-00 OSCILLATOR, CRYSTAL

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\*1-638-390-11 F BOARD  
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\*1-580-690-11 PIN, CONNECTOR (PC BOARD) 4P  
\*4-341-752-01 EYELET

## <FUSE>

F1601 $\Delta$  1-532-504-31 FUSE 4A/250V  
1-533-230-11 HOLDER, FUSE; F1601

## <SWITCH>

S1701 $\Delta$  1-571-433-11 SWITCH, PUSH (AC POWER)

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A-1632-022-A A BOARD, COMPLETE  
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\*1-560-290-00 PLUG, CONNECTOR (2.5MM PITCH)  
\*1-564-881-11 PLUG, CONNECTOR 4P  
\*1-564-886-11 PLUG, CONNECTOR 9P  
\*1-565-393-11 CONNECTOR, BOARD TO BOARD  
\*1-565-503-11 CONNECTOR, BOARD TO BOARD 12P

## <CAPACITOR>

Part No.	Description	Value	Tolerance	Voltage
C101	1-126-233-11 ELECT	22MF	20%	50V
C102	1-126-103-11 ELECT	470MF	20%	16V
C104	1-124-910-11 ELECT	47MF	20%	50V
C106	1-126-233-11 ELECT	22MF	20%	50V
C108	1-136-165-00 FILM	0.1MF	5%	50V
C109	1-163-133-00 CERAMIC CHIP	470PF	5%	50V
C111	1-124-925-11 ELECT	2.2MF	20%	50V
C115	1-124-925-11 ELECT	2.2MF	20%	50V
C127	1-124-122-11 ELECT	100MF	20%	50V
C128	1-124-910-11 ELECT	47MF	20%	50V
C129	1-124-910-11 ELECT	47MF	20%	50V
C138	1-136-165-00 FILM	0.1MF	5%	50V
C171	1-163-005-11 CERAMIC CHIP	470PF	10%	50V
C172	1-163-005-11 CERAMIC CHIP	470PF	10%	50V
C177	1-102-074-00 CERAMIC	0.001MF	10%	50V
C181	1-101-004-00 CERAMIC	0.01MF		50V

## <IC>

IC103 8-759-979-62 IC PCF8574

## <COIL>

Part No.	Description	Value
L100	1-410-683-31 INDUCTOR	560UH
L101	1-408-225-00 INDUCTOR	3.3UH
L102	1-408-413-00 INDUCTOR	22UH
L107	1-408-397-00 INDUCTOR	1UH

REMARK

REF.NO. PART NO.

DESCRIPTION

REMARK

## <TRANSISTOR>

Part No.	Description	Value
Q113	8-729-901-78 TRANSISTOR	2SC2412K-R
Q114	8-729-901-78 TRANSISTOR	2SC2412K-R
Q115	8-729-901-78 TRANSISTOR	2SC2412K-R
Q116	8-729-901-78 TRANSISTOR	2SC2412K-R
Q125	8-729-900-89 TRANSISTOR	DTC144ES
Q126	8-729-901-06 TRANSISTOR	DTA144EK
Q181	8-729-901-78 TRANSISTOR	2SC2412K-R

## <RESISTOR>

Part No.	Description	Value	Tolerance	Power
JR230	1-216-295-00 METAL GLAZE	0	5%	1/10W
JR252	1-216-296-00 METAL GLAZE	0	5%	1/8W
JR253	1-216-296-00 METAL GLAZE	0	5%	1/8W
JR255	1-216-296-00 METAL GLAZE	0	5%	1/8W
JR256	1-216-296-00 METAL GLAZE	0	5%	1/8W
JR257	1-216-296-00 METAL GLAZE	0	5%	1/8W
JR258	1-216-296-00 METAL GLAZE	0	5%	1/8W
R101	1-216-025-00 METAL GLAZE	100	5%	1/10W
R105	1-216-079-00 METAL GLAZE	18K	5%	1/10W
R107	1-216-081-00 METAL GLAZE	22K	5%	1/10W
R108	1-216-079-00 METAL GLAZE	18K	5%	1/10W
R110	1-249-429-11 CARBON	10K	5%	1/4W
R111	1-216-057-00 METAL GLAZE	2.2K	5%	1/10W
R116	1-216-023-00 METAL GLAZE	82	5%	1/10W
R118	1-216-085-00 METAL GLAZE	33K	5%	1/10W
R128	1-216-027-00 METAL GLAZE	120	5%	1/10W
R129	1-216-057-00 METAL GLAZE	2.2K	5%	1/10W
R130	1-216-057-00 METAL GLAZE	2.2K	5%	1/10W
R157	1-216-049-00 METAL GLAZE	1K	5%	1/10W
R158	1-249-409-11 CARBON	220	5%	1/4W
R159	1-249-409-11 CARBON	220	5%	1/4W
R161	1-216-089-00 METAL GLAZE	47K	5%	1/10W
R162	1-216-095-00 METAL GLAZE	82K	5%	1/10W
R163	1-216-095-00 METAL GLAZE	82K	5%	1/10W
R164	1-216-075-00 METAL GLAZE	12K	5%	1/10W
R165	1-216-075-00 METAL GLAZE	12K	5%	1/10W
R167	1-216-059-00 METAL GLAZE	2.7K	5%	1/10W
R168	1-216-089-00 METAL GLAZE	47K	5%	1/10W
R169	1-216-059-00 METAL GLAZE	2.7K	5%	1/10W
R181	1-216-049-00 METAL GLAZE	1K	5%	1/10W
R182	1-216-065-00 METAL GLAZE	4.7K	5%	1/10W
R193	1-216-073-00 METAL GLAZE	10K	5%	1/10W
R194	1-216-017-00 METAL GLAZE	47	5%	1/10W
R195	1-216-017-00 METAL GLAZE	47	5%	1/10W
R196	1-216-113-00 METAL GLAZE	470K	5%	1/10W

## <TUNER>

TU101 $\Delta$  1-465-301-11 TUNER, ET (UV-816(PLL))

## <IF BLOCK>

VIF101 1-466-154-21 IF BLOCK (IFG-389S)

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\*A-1638-011-A C BOARD, COMPLETE (KV-E2521D ONLY)  
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\*A-1638-013-A C BOARD, COMPLETE (KV-E2921D ONLY)  
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\*1-506-371-00 PIN, CONNECTOR 2P  
\*1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P  
\*1-568-878-51 PIN, CONNECTOR 3P



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	*1-568-881-51	PIN, CONNECTOR 6P		R709	1-202-844-00	SOLID 330K 10%	1/2W
	*4-379-160-01	COVER (REAR LID), CV		R710	1-215-465-00	METAL 68K 1%	1/6W
	*4-379-167-01	COVER (MAIN), CV		R711	1-249-426-11	CARBON 5.6K 5%	1/4W
				R712	1-249-417-11	CARBON 1K 5%	1/4W
				R713	1-215-471-00	METAL 120K 1%	1/6W
		<CAPACITOR>		R714	1-216-486-00	METAL OXIDE 8.2K 5%	3W F
C703	1-102-980-00	CERAMIC 270PF 5%	50V	R715	1-202-824-00	SOLID 3.3K 10%	1/2W
C704	1-102-116-00	CERAMIC 680PF 10%	50V	R716	1-249-409-11	CARBON 220 5%	1/4W
C705	1-102-978-00	CERAMIC 220PF 5%	50V	R717	1-249-415-11	CARBON 680 5%	1/4W
C706	1-102-116-00	CERAMIC 680PF 10%	50V	R718	1-202-814-11	SOLID 33K 10%	1/2W
C707	1-162-116-00	CERAMIC 680PF 10%	2KV	R719	1-249-401-11	CARBON 47 5%	1/4W
C708	1-162-114-00	CERAMIC 0.0047MF 2KV		R720	1-249-423-11	CARBON 3.3K 5%	1/4W
C709	1-102-116-00	CERAMIC 680PF 10%	50V	R721	1-202-842-11	SOLID 220K 10%	1/2W
C710	1-123-947-00	ELECT 10MF 20%	250V	R722	1-202-848-00	SOLID 680K 10%	1/2W
C711	1-101-880-00	CERAMIC 47PF 5%	50V	R723	1-249-417-11	CARBON 1K 5%	1/4W
C712	1-102-980-00	CERAMIC 270PF 5%	50V	R724	1-202-846-00	SOLID 470K 10%	1/2W
C714	1-124-360-00	ELECT 1000MF 20%	16V	R725	1-202-838-00	SOLID 100K 10%	1/2W
C716	1-162-622-11	CERAMIC 330PF 10%	400V	R726	1-202-824-00	SOLID 3.3K 10%	1/2W
C717	1-102-114-00	CERAMIC 470PF 10%	50V	R727	1-249-409-11	CARBON 220 5%	1/4W
C718	1-102-114-00	CERAMIC 470PF 10%	50V	R728	1-216-347-11	METAL OXIDE 0.68 5%	1W F
C719	1-102-114-00	CERAMIC 470PF 10%	50V	R729	1-249-416-11	CARBON 820 5%	1/4W
		<DIODE>		R730	1-249-401-11	CARBON 47 5%	1/4W
D701	8-719-110-14	DIODE RD9.1ES-B3		R731	1-249-423-11	CARBON 3.3K 5%	1/4W
D702	8-719-911-19	DIODE 1SS119		R732	1-249-415-11	CARBON 680 5%	1/4W
D703	8-719-911-19	DIODE 1SS119		R733	1-249-415-11	CARBON 680 5%	1/4W
D704	8-719-911-19	DIODE 1SS119		R734	1-249-405-11	CARBON 100 5%	1/4W
D705	8-719-911-19	DIODE 1SS119		R735	1-215-493-00	METAL 1M 1%	1/6W
D706	8-719-911-19	DIODE 1SS119		R736	1-216-486-00	METAL OXIDE 8.2K 5%	3W F
D707	8-719-911-19	DIODE 1SS119		R737	1-215-491-00	METAL 820K 1%	1/6W
D708	8-719-911-19	DIODE 1SS119			1-215-485-00	METAL 470K 1%	1/6W
D709	8-719-911-19	DIODE 1SS119					(KV-E2921D ONLY)
D710	8-719-911-19	DIODE 1SS119		R739	1-249-417-11	CARBON 1K 5%	1/4W
D711	8-719-300-33	DIODE RU-3AM				<VARIABLE RESISTOR>	
D713	8-719-911-19	DIODE 1SS119		RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M	
		<JACK>		RV702	1-230-619-11	RES, ADJ, METAL GLAZE 110M	
J701	1-526-990-11	SOCKET, PICTURE TUBE		RV703	1-237-749-11	RES, ADJ, CARBON 2200	
		<COIL>		RV704	1-237-749-11	RES, ADJ, CARBON 2200	
L704	1-410-878-11	INDUCTOR 33UH				*****	
		<TRANSISTOR>		A-1642-031-A	D BOARD, COMPLETE (KV-E2521D ONLY)		
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE		A-1642-032-A	D BOARD, COMPLETE (KV-E2921D ONLY)		
Q703	8-729-906-70	TRANSISTOR BF871			*****		
Q704	8-729-200-17	TRANSISTOR 2SA1091-0		*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		
Q705	8-729-119-78	TRANSISTOR 2SC2785-HFE		*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		
Q706	8-729-906-70	TRANSISTOR BF871		*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		
Q707	8-729-200-17	TRANSISTOR 2SA1091-0		*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR		
Q708	8-729-119-78	TRANSISTOR 2SC2785-HFE		*1-565-395-11	PIN, CONNECTOR 3P		
Q709	8-729-906-70	TRANSISTOR BF871		*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)		
Q710	8-729-200-17	TRANSISTOR 2SA1091-0		*1-568-536-11	PLUG (MINIATURE DY) 6P		
		<RESISTOR>		*1-568-878-51	PIN, CONNECTOR 3P (KV-E2921D ONLY)		
R704	1-216-486-00	METAL OXIDE 8.2K 5%	3W F	*1-568-881-51	PIN, CONNECTOR 6P		
R705	1-202-824-00	SOLID 3.3K 10%	1/2W	*1-568-882-51	PIN, CONNECTOR 7P		
R706	1-249-409-11	CARBON 220 5%	1/4W	4-200-001-01	HOLDER, IC		
R707	1-249-412-11	CARBON 390 5%	1/4W	4-201-023-01	SPACER, INSULATING		
R708	1-249-401-11	CARBON 47 5%	1/4W	*4-341-751-01	EYELET		
				*4-341-752-01	EYELET		
				*4-368-683-01	SPRING		

The components identified by shading and mark **Δ** are critical for safety. Replace only with part number specified.

**D**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<CAPACITOR>				C525	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C002	1-163-205-00	CERAMIC CHIP 0.001MF	5% 50V	C526	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
C003	1-124-925-11	ELECT 2.2MF	20% 50V	C527	1-137-098-11	FILM 0.1MF	10% 100V
C004	1-124-120-11	ELECT 220MF	20% 16V	C531	1-124-190-00	ELECT 680MF	10% 25V
C005	1-124-791-11	ELECT 1MF	20% 50V	C532	1-124-122-11	ELECT 100MF	20% 50V
C008	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C533	1-137-096-11	FILM 0.068MF	10% 100V
C009	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C534	1-124-120-11	ELECT 220MF	20% 16V
C010	1-124-120-11	ELECT 220MF	20% 16V	C536	1-131-365-00	TANTALUM 10MF	10% 16V
C011	1-164-232-11	CERAMIC CHIP 0.01MF	5% 50V	C537	1-124-791-11	ELECT 1MF	20% 50V
C013	1-137-098-11	FILM 0.1MF	10% 100V	C538	1-108-680-11	MYLAR 0.001MF	10% 100V
C014	1-137-098-11	FILM 0.1MF	10% 100V	C539	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C015	1-124-902-00	ELECT 0.47MF	20% 50V	C540	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C016	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C592	1-124-122-11	ELECT 100MF	20% 50V
C017	1-137-098-11	FILM 0.1MF	10% 100V	C593	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
C018	1-163-127-00	CERAMIC CHIP 270PF	5% 50V	C601	Δ 1-161-964-61	CERAMIC 0.0047MF	250V
C019	1-137-094-11	FILM 0.047MF	10% 100V	C602	Δ 1-161-964-61	CERAMIC 0.0047MF	250V
C021	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C603	Δ 1-161-964-61	CERAMIC 0.0047MF	250V
C023	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C604	Δ 1-125-318-11	ELECT (BLOCK) 220MF	20% 400V
C024	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	C605	1-124-484-11	ELECT 220MF	20% 35V
C027	1-124-910-11	ELECT 47MF	20% 50V	C606	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
C030	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C607	1-137-028-11	FILM 1MF	10% 63V
C031	1-163-081-00	CERAMIC CHIP 0.22MF	25V	C608	1-124-927-11	ELECT 4.7MF	20% 50V
C032	1-163-081-00	CERAMIC CHIP 0.22MF	25V	C611	1-124-910-11	ELECT 47MF	20% 50V
C033	1-163-181-00	CERAMIC CHIP 100PF	5% 50V	C612	1-108-680-11	MYLAR 0.001MF	10% 100V
C034	1-123-875-11	ELECT 10MF	20% 50V	C613	1-136-539-11	FILM 0.0022MF	3% 2KV
C034	1-163-038-00	CERAMIC CHIP 0.1MF	25V	C614	1-102-030-00	CERAMIC 330PF	10% 500V
C251	1-124-791-11	ELECT 1MF	20% 50V	C615	1-128-142-11	ELECT 1500MF	20% 25V
C252	1-126-233-11	ELECT 22MF	20% 50V	C616	1-102-030-00	CERAMIC 330PF	10% 500V
C253	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C617	1-124-122-11	ELECT 100MF	20% 50V
C254	1-137-098-11	FILM 0.1MF	10% 100V	C618	1-162-115-00	CERAMIC 330PF	10% 2KV
C255	1-124-636-00	ELECT 3300MF	20% 25V	C619	1-128-320-51	ELECT 2200MF	20% 16V
C261	1-124-791-11	ELECT 1MF	20% 50V	C620	1-136-173-00	FILM 0.47MF	5% 50V
C262	1-126-233-11	ELECT 22MF	20% 50V	C621	1-124-347-00	ELECT 100MF	20% 160V
C263	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	C622	1-128-320-51	ELECT 2200MF	20% 16V
C264	1-137-098-11	FILM 0.1MF	10% 100V	C623	1-124-910-11	ELECT 47MF	20% 50V
C265	1-124-564-11	ELECT 4700MF	20% 25V	C624	1-124-122-11	ELECT 100MF	20% 50V
C270	1-137-035-11	FILM 0.47MF	10% 100V	C625	1-124-360-00	ELECT 1000MF	20% 16V
C274	1-137-035-11	FILM 0.47MF	10% 100V	C626	1-124-907-11	ELECT 10MF	20% 50V
C501	1-124-927-11	ELECT 4.7MF	20% 50V	C627	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C502	1-124-927-11	ELECT 4.7MF	20% 50V	C631	1-124-927-11	ELECT 4.7MF	20% 50V
C503	1-137-049-11	FILM 0.015MF	10% 400V	C632	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C504	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	C633	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
C505	1-108-794-11	MYLAR 0.0015MF	5% 50V	C801	1-126-105-11	ELECT 1000MF	20% 35V
C506	1-137-102-11	FILM 0.022MF	10% 250V	C802	1-102-030-00	CERAMIC 330PF	10% 500V
C507	1-137-033-11	FILM 0.33MF	10% 100V	C804	1-123-948-00	ELECT 22MF	20% 250V
C508	1-137-102-11	FILM 0.022MF	10% 250V	C805	1-162-114-00	CERAMIC 0.0047MF	2KV
C509	1-137-098-11	FILM 0.1MF	10% 100V	C806	1-137-098-11	FILM 0.1MF	10% 100V
C510	1-161-959-00	CERAMIC 22PF	10% 500V	C807	1-106-395-00	MYLAR 0.15MF	10% 200V
C511	1-108-686-11	MYLAR 0.0033MF	10% 100V	C810	1-123-024-21	ELECT 33MF	160V
C512	1-137-098-11	FILM 0.1MF	10% 100V	C811	1-136-113-00	FILM 2MF	5% 200V
C513	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C812	1-124-634-11	ELECT 1MF	20% 250V
C514	1-137-031-11	FILM 0.22MF	10% 100V	C813	1-102-212-00	CERAMIC 820PF	10% 500V
C515	1-124-791-11	ELECT 1MF	20% 50V	C814	Δ 1-161-731-51	CERAMIC 0.001MF	10% 2KV
C516	1-108-680-11	MYLAR 0.001MF	10% 100V	C815	1-136-111-00	FILM 1MF	5% 200V
C517	1-124-252-00	ELECT 0.33MF	20% 50V		1-136-540-11	FILM 0.82MF	5% 200V
C518	1-124-902-00	ELECT 0.47MF	20% 50V				(KV-E2521D ONLY)
C519	1-136-173-00	FILM 0.47MF	5% 50V				(KV-E2921D ONLY)
	1-136-171-00	FILM 0.33MF	5% 50V	C817	Δ 1-136-565-11	FILM 0.015MF	3% 1.4KV
			(KV-E2921D ONLY)		Δ 1-136-591-11	FILM 0.017MF	3% 1.4KV
C520	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V				(KV-E2921D ONLY)
C521	1-137-098-11	FILM 0.1MF	10% 100V	C818	Δ 1-129-721-51	FILM 0.039MF	10% 630V
C522	1-124-122-11	ELECT 100MF	20% 50V	C819	Δ 1-161-731-51	CERAMIC 0.001MF	10% 2KV
C523	1-108-680-11	MYLAR 0.001MF	10% 100V				
C524	1-108-798-11	MYLAR 0.0033MF	5% 50V				

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C820	1-137-046-11	FILM	0.0082MF 10% 400V	D618	8-719-109-89	DIODE RD5.6ES-B2	
C821	$\Delta$ 1-162-116-51	CERAMIC	680PF 10% 2KV	D619	8-719-982-24	DIODE MTZJ-33A	
	$\Delta$ 1-162-134-51	CERAMIC	470PF 10% 2KV (KV-E2521D ONLY)	D620	8-719-800-76	DIODE ISS226	
C822	1-163-005-11	CERAMIC CHIP	470PF 10% 50V	D621	8-719-982-24	DIODE MTZJ-33A	
C823	1-137-043-11	FILM	0.0047MF 10% 400V	D622	8-719-911-19	DIODE ISS119	
C824	1-102-212-00	CERAMIC	820PF 10% 500V	D623	8-719-911-19	DIODE ISS119	
C825	1-137-102-11	FILM	0.022MF 10% 250V	D624	8-719-911-19	DIODE ISS119	
C1601	$\Delta$ 1-136-518-11	FILM	0.33MF 20% 300V	D630	8-719-921-91	DIODE MTZJ-15A	
C1602	$\Delta$ 1-136-519-11	FILM	0.47MF 20% 300V	D801	8-719-300-33	DIODE RU-3AM	
C1603	$\Delta$ 1-164-246-51	CERAMIC	0.0022MF 20% 400V (KV-E2921D ONLY)	D802	8-719-300-33	DIODE RU-3AM	
C1604	$\Delta$ 1-164-246-51	CERAMIC	0.0022MF 20% 400V (KV-E2521D ONLY)	D803	8-719-976-64	DIODE RGP02-17	
C1605	$\Delta$ 1-164-246-51	CERAMIC	0.0022MF 20% 400V	D804	8-719-911-55	DIODE U05G	
C1607	$\Delta$ 1-161-964-61	CERAMIC	0.0047MF 250V	D805	8-719-911-55	DIODE U05G	
<FILTER>				<IC>			
CF001	1-577-364-11	VIBRATOR, CERAMIC		IC001	8-759-515-80	IC SDA20560-A008	
CF501	1-567-888-11	OSCILLATOR, CERAMIC		IC002	8-759-208-06	IC TC4051BPHB	
<CONNECTOR>				IC003	8-759-945-58	IC RC4558P	
CND801	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	(KV-E2921D ONLY)	IC005	8-759-748-56	IC SDA2546	
<DIODE>				IC251	8-759-988-94	IC TDA2050	
D003	8-719-911-19	DIODE ISS119			4-812-134-00	RIVET NYLON, 3.5; IC251	
D005	8-719-109-89	DIODE RD5.6ES-B2		IC261	8-759-988-94	IC TDA2050	
D006	8-719-982-24	DIODE MTZJ-33A			4-812-134-00	RIVET NYLON, 3.5; IC261	
D007	8-719-982-08	DIODE MTZJ-3.9B		IC501	8-759-970-73	IC TEA2028B	
D009	8-719-109-89	DIODE RD5.6ES-B2		IC502	8-759-944-57	IC TDA8170	
D010	8-719-921-54	DIODE MTZJ-6.2B		IC601	8-759-988-95	IC TEA2260	
D011	8-719-921-54	DIODE MTZJ-6.2B		IC604	8-759-510-52	IC TEA7605	
D012	8-719-911-19	DIODE ISS119		IC608	8-759-037-26	IC TYA7812CT	
D013	8-719-109-97	DIODE RD6.8ES-B2		<COIL>			
D271	8-719-921-88	DIODE MTZJ-13B		L501	1-408-225-00	INDUCTOR 3.3UH	
D272	8-719-911-19	DIODE ISS119		L601	*1-420-872-00	COIL, AIR CORE	
D501	8-719-911-19	DIODE ISS119		L602	1-410-396-41	FERRITE BEAD INDUCTOR	
D504	8-719-911-55	DIODE U05G		L603	1-410-396-41	FERRITE BEAD INDUCTOR	
D506	8-719-800-76	DIODE ISS226 (KV-E2521D ONLY)		L604	1-410-671-31	INDUCTOR 47UH	
D508	8-719-911-19	DIODE ISS119		L605	1-459-585-11	COIL (WITH CORE) (DRUM TYPE)	
D509	8-719-911-19	DIODE ISS119		L606	1-421-013-00	COIL (HORIZONTAL CHOKE) 25UH	
D511	8-719-911-55	DIODE U05G		L607	1-410-671-31	INDUCTOR 47UH	
D512	8-719-911-55	DIODE U05G		L801	1-459-087-00	COIL, HCC DUST CORE 3.9MMH (KV-E2921D ONLY)	
D543	8-719-010-34	DIODE UZ-4.7BSC		L803	1-459-104-00	COIL, DUST CORE	
D514	8-719-911-19	DIODE ISS119 (KV-E2921D ONLY)		L804	1-408-239-00	INDUCTOR 4.7MMH	
D515	8-719-911-19	DIODE ISS119 (KV-E2921D ONLY)		L805	1-459-755-11	COIL, HORIZONTAL LINEARITY (KV-E2521D ONLY)	
D601	$\Delta$ 8-719-510-63	DIODE D4SB60L-F			1-459-907-11	COIL, HORIZONTAL LINEARITY (KV-E2921D ONLY)	
D602	8-719-300-33	DIODE RU-3AM		L806	1-459-111-00	COIL, DRAM CORE (CDI) (KV-E2521D ONLY)	
D603	8-719-911-55	DIODE U05G			1-459-087-00	COIL, HCC DUST CORE 3.9MMH (KV-E2921D ONLY)	
D604	8-719-911-55	DIODE U05G		L809	*1-420-872-00	COIL, AIR CORE	
D605	8-719-911-55	DIODE U05G		L810	$\Delta$ 1-421-982-12	PMC (KV-E2521D ONLY)	
D606	8-719-300-33	DIODE RU-3AM			$\Delta$ 1-421-794-21	TRANSFORMER, FERRITE (PMT) (KV-E2921D ONLY)	
D607	8-719-300-33	DIODE RU-3AM		<TRANSFORMER>			
D608	8-719-300-33	DIODE RU-3AM		LF1601	$\Delta$ 1-421-866-12	LFT	
D609	8-719-982-24	DIODE MTZJ-33A		LF1602	$\Delta$ 1-421-776-11	LFT	
D610	8-719-300-59	DIODE CTU-12S		LF1603	$\Delta$ 1-421-862-11	LFT	
D611	8-719-900-26	DIODE ERD29-08J		T601	$\Delta$ 1-450-038-11	S.R.T (KV-E2521D ONLY)	
D612	8-719-300-59	DIODE CTU-12S					
D613	8-719-979-85	DIODE EGP20G					
D614	8-719-979-85	DIODE EGP20G					
D616	8-719-921-54	DIODE MTZJ-6.2B					
D617	8-719-911-19	DIODE ISS119					



The components identified by shading and mark **△** are critical for safety.  
Replace only with part number specified.

**D**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
T601	△ 1-450-037-11	S.R.T (KV-E2921D ONLY)		R015	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
T602	△ 1-424-277-11	TRANSFORMER, TRIGGER PULSE		R016	1-216-085-00	METAL GLAZE 33K 5%	1/10W
T801	△ 1-437-090-21	HDT		R017	1-216-748-11	METAL GLAZE 39K 5%	1/10W
T802	△ 1-439-416-11	TRANSFORMER ASSY, FLYBACK (UX-1600)		R018	1-216-095-00	METAL GLAZE 82K 5%	1/10W
<IC LINK>				R019	1-216-025-00	METAL GLAZE 100 5%	1/10W
PS601	△ 1-532-984-91	LINK, IC (ICP-N50) 2A		R020	1-216-025-00	METAL GLAZE 100 5%	1/10W
PS602	△ 1-532-984-91	LINK, IC (ICP-N50) 2A		R021	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
PS603	△ 1-532-679-91	LINK, IC (ICP-N15) 0.6A		R022	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
PS604	△ 1-532-984-91	LINK, IC (ICP-N50) 2A		R024	1-216-073-00	METAL GLAZE 10K 5%	1/10W
<TRANSISTOR>				R025	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q001	8-729-901-01	TRANSISTOR DTC144EK		R026	1-216-182-00	METAL GLAZE 220 5%	1/8W
Q002	8-729-901-01	TRANSISTOR DTC144EK		R027	1-216-025-00	METAL GLAZE 100 5%	1/10W
Q003	8-729-216-22	TRANSISTOR 2SA1162-G		R028	1-216-025-00	METAL GLAZE 100 5%	1/10W
Q004	8-729-216-22	TRANSISTOR 2SA1162-G		R029	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q005	8-729-901-01	TRANSISTOR DTC144EK		R030	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q006	8-729-901-01	TRANSISTOR DTC144EK		R031	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q007	8-729-901-78	TRANSISTOR 2SC2412K-R		R032	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q008	8-729-901-78	TRANSISTOR 2SC2412K-R		R033	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q009	8-729-901-78	TRANSISTOR 2SC2412K-R		R034	1-216-077-00	METAL GLAZE 15K 5%	1/10W
Q010	8-729-901-78	TRANSISTOR 2SC2412K-R		R035	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q251	8-729-901-78	TRANSISTOR 2SC2412K-R		R036	1-216-083-00	METAL GLAZE 27K 5%	1/10W
Q261	8-729-901-78	TRANSISTOR 2SC2412K-R		R037	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
Q271	8-729-901-78	TRANSISTOR 2SC2412K-R		R038	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
Q502	8-729-216-22	TRANSISTOR 2SA1162-G		R039	1-216-081-00	METAL GLAZE 22K 5%	1/10W
Q505	8-729-140-96	TRANSISTOR 2SD774-34		R040	1-216-077-00	METAL GLAZE 15K 5%	1/10W
Q506	8-729-140-97	TRANSISTOR 2SB734-34		R041	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q507	8-729-216-22	TRANSISTOR 2SA1162-G		R042	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q598	8-729-216-22	TRANSISTOR 2SA1162-G		R043	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q601	8-729-122-03	TRANSISTOR 2SA1220A-P		R044	1-216-097-00	METAL GLAZE 100K 5%	1/10W
Q602	8-729-209-02	TRANSISTOR 2SD1548-LB		R045	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
Q603	8-729-122-03	TRANSISTOR 2SA1220A-P		R046	1-216-095-00	METAL GLAZE 82K 5%	1/10W
Q604	8-729-216-22	TRANSISTOR 2SA1162-G		R047	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q605	8-729-901-78	TRANSISTOR 2SC2412K-R		R048	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q606	8-729-901-78	TRANSISTOR 2SC2412K-R		R049	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q607	8-729-920-92	TRANSISTOR 2SD2096-EF		R050	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
Q608	8-729-901-78	TRANSISTOR 2SC2412K-R		R051	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q609	8-729-320-62	TRANSISTOR 2SD789-34		R052	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q801	8-729-901-78	TRANSISTOR 2SC2412K-R		R053	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q804	8-729-304-50	TRANSISTOR 2SD1941-06		R054	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q805	8-729-119-80	TRANSISTOR 2SC2688-LK		R055	1-216-037-00	METAL GLAZE 330 5%	1/10W
<RESISTOR>				R056	1-216-073-00	METAL GLAZE 10K 5%	1/10W
JR1	1-216-296-00	METAL GLAZE 0 5%	1/8W	R057	1-216-025-00	METAL GLAZE 100 5%	1/10W
JR3	1-216-296-00	METAL GLAZE 0 5%	1/8W	R058	1-216-049-00	METAL GLAZE 1K 5%	1/10W
JR4	1-216-296-00	METAL GLAZE 0 5%	1/8W	R059	1-216-049-00	METAL GLAZE 1K 5%	1/10W
JR5	1-216-295-00	METAL GLAZE 0 5%	1/10W	R060	1-216-049-00	METAL GLAZE 1K 5%	1/10W
JR6	1-216-295-00	METAL GLAZE 0 5%	1/10W	R061	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
JR7	1-216-296-00	METAL GLAZE 0 5%	1/8W	R062	1-216-049-00	METAL GLAZE 1K 5%	1/10W
JR8	1-216-295-00	METAL GLAZE 0 5%	1/10W	R063	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R001	1-216-041-00	METAL GLAZE 470 5%	1/10W	R064	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R002	1-216-041-00	METAL GLAZE 470 5%	1/10W	R065	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R003	1-216-198-00	METAL GLAZE 1K 5%	1/8W	R066	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R004	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R067	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R005	1-216-081-00	METAL GLAZE 22K 5%	1/10W	R068	1-216-174-00	METAL GLAZE 100 5%	1/8W
R006	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R069	1-216-174-00	METAL GLAZE 100 5%	1/8W
R007	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R070	1-216-198-00	METAL GLAZE 1K 5%	1/8W
R008	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R071	1-216-198-00	METAL GLAZE 1K 5%	1/8W
R009	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R072	1-216-222-00	METAL GLAZE 10K 5%	1/8W
R010	1-216-041-00	METAL GLAZE 470 5%	1/10W	R073	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R011	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R075	1-216-041-00	METAL GLAZE 470 5%	1/10W
R012	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R076	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R013	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R078	1-216-198-00	METAL GLAZE 1K 5%	1/8W
R014	1-216-085-00	METAL GLAZE 33K 5%	1/10W	R079	1-216-073-00	METAL GLAZE 10K 5%	1/10W
				R080	1-216-073-00	METAL GLAZE 10K 5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R081	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R534	1-216-119-00	METAL GLAZE	820K 5% 1/10W
R082	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R535	1-249-749-00	CARBON	2.2M 5% 1/4W
R083	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R536	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W
R084	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R537	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R085	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R538	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R086	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R539	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R087	1-216-035-00	METAL GLAZE	270 5% 1/10W	R540	1-216-013-00	METAL GLAZE	33 5% 1/10W
R088	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R541	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R093	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R542	1-216-308-00	METAL GLAZE	4.7 5% 1/10W
R094	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R543	1-249-451-11	CARBON	2.2 5% 1/4W
R095	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R544	1-247-745-11	CARBON	330 5% 1/2W
R096	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R545	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R098	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R546	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R251	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R547	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R252	1-216-039-00	METAL GLAZE	390 5% 1/10W	R548	1-216-349-00	METAL OXIDE	1 5% 1W F
R253	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R549	1-216-454-11	METAL OXIDE	390 5% 2W F
R254	1-216-357-00	METAL OXIDE	4.7 5% 1W F	R550	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R255	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R551	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W
R256	1-216-115-00	METAL GLAZE	560K 5% 1/10W	R553	1-215-869-11	METAL OXIDE	1K 5% 1W
R257	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R554	1-216-037-00	METAL GLAZE	330 5% 1/10W
R258	1-215-869-11	METAL OXIDE	1K 5% 1W F	R555	1-216-129-00	METAL GLAZE	2.2M 5% 1/10W
R259	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R556	1-216-025-00	METAL GLAZE	100 5% 1/10W
R261	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R557	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R262	1-216-039-00	METAL GLAZE	390 5% 1/10W	R558	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R263	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R559	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R264	1-216-357-00	METAL OXIDE	4.7 5% 1W F	R560	1-216-037-00	METAL GLAZE	330 5% 1/10W
R265	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R561	1-216-107-00	METAL GLAZE	270K 5% 1/10W
R266	1-216-115-00	METAL GLAZE	560K 5% 1/10W	R570	1-216-045-00	METAL GLAZE	680 5% (KV-E2921D ONLY)
R267	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R591	1-216-047-00	METAL GLAZE	820 5% 1/10W
R268	1-215-869-11	METAL OXIDE	1K 5% 1W F	R592	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R269	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R593	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R270	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R594	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R271	1-216-045-00	METAL GLAZE	680 5% 1/10W	R597	1-216-041-00	METAL GLAZE	470 5% 1/10W
R272	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R598	1-215-900-11	METAL OXIDE	22K 5% 2W F
R273	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R600	1-249-381-11	CARBON	1 5% 1/4W
R274	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R601	1-216-353-00	METAL OXIDE	2.2 5% 1W F
R500	1-216-115-00	METAL GLAZE	560K 5% 1/10W	R603	1-216-469-11	METAL OXIDE	12 5% 3W F
R501	1-216-041-00	METAL GLAZE	470 5% 1/10W	R604	1-216-025-00	METAL GLAZE	100 5% 1/10W
R502	1-216-033-00	METAL GLAZE	220 5% 1/10W	R605	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R503	1-216-035-00	METAL GLAZE	270 5% 1/10W	R606	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R504	1-249-420-11	CARBON	1.8K 5% 1/4W	R607	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R505	1-216-077-00	METAL GLAZE	15K 5% 1/10W		1-216-067-00	METAL GLAZE	5.6K 5% (KV-E2521D ONLY)
R506	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W				
R509	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R608	1-216-488-11	METAL OXIDE	18K 5% 3W F
R510	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R609	1-216-007-00	METAL GLAZE	18 5% 1/10W
R514	1-216-033-00	METAL GLAZE	220 5% 1/10W	R610	1-244-941-00	CARBON	680K 5% 1/2W
R515	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R611	1-216-015-00	METAL GLAZE	39 5% 1/10W
R517	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R612	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R518	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R613	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R519	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R614	1-205-758-11	WIREWOUND	100 10% 10W F
R520	1-216-037-00	METAL GLAZE	330 5% 1/10W	R616	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R521	1-216-025-00	METAL GLAZE	100 5% 1/10W	R617	1-216-037-00	METAL GLAZE	330 5% 1/10W
R522	1-215-469-00	METAL	100K 1% 1/6W	R618	1-216-431-11	METAL OXIDE	560 5% 1W F
R523	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R619	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R524	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R620	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R525	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R621	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R526	1-249-409-11	CARBON	220 5% 1/4W F	R622	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R527	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R623	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R528	1-216-031-00	METAL GLAZE	180 5% 1/10W	R624	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R529	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R625	1-215-865-11	METAL OXIDE	220 5% 1W F
R530	1-249-448-11	CARBON	1.2 5% 1/4W F				
R531	1-216-099-00	METAL GLAZE	120K 5% 1/10W				
R532	1-216-049-00	METAL GLAZE	1K 5% 1/10W				
R533	1-216-295-00	METAL GLAZE	0 5% 1/10W				

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.



REF.NO.	PART NO.	DESCRIPTION	REMARK
R626	1-216-037-00	METAL GLAZE	330 5% 1/10W
R628	1-216-001-00	METAL GLAZE	10 5% 1/10W
R629	1-216-037-00	METAL GLAZE	330 5% 1/10W
R633	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R634	1-216-430-11	METAL OXIDE	390 5% 1W F
R635	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R636	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R643	1-217-189-21	WIREWOUND	0.12 5% 2W F
R651	1-216-025-00	METAL GLAZE	100 5% 1/10W
R653	1-205-758-11	WIREWOUND	100 10% 10W F
R802	1-249-443-11	CARBON	0.47 5% 1/4W F
R805	1-249-448-11	CARBON	1.2 5% 1/4W F
R806	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R807	1-215-869-11	METAL OXIDE	1K 5% 1W F
R809	1-202-821-11	SOLID	1.8K 10% 1/2W
R810	1-202-818-00	SOLID	1K 10% 1/2W
R811	1-215-882-00	METAL OXIDE	22 5% 2W F
R812	1-249-494-11	CARBON	68K 5% 1/2W (KV-E2521D ONLY)
	1-247-281-00	CARBON	51K 5% 1/2W (KV-E2921D ONLY)
R815	1-215-884-11	METAL OXIDE	47 5% 2W F
R816	1-215-868-00	METAL OXIDE	680 5% 1W F
R817	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R820	1-249-403-11	CARBON	68 5% 1/4W
R821	1-247-725-11	CARBON	10K 5% 1/4W F
R822	1-217-778-11	FUSIBLE	1K 5% 1W F
R825	1-216-345-11	METAL OXIDE	0.47 5% 1W F
R826	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R827	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R828	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R829	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R831	1-249-451-11	CARBON	2.2 5% 1/4W
R1601 $\Delta$	1-246-513-75	CARBON	47K 5% 1/4W
R1602 $\Delta$	1-244-945-91	CARBON	1M 5% 1/2W
R1603 $\Delta$	1-217-328-11	WIREWOUND	2.7 10% 7W F
R1604 $\Delta$	1-246-513-75	CARBON	47K 5% 1/4W
R1605 $\Delta$	1-218-265-91	METAL GLAZE	8.2M 5% 1W
R5501	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R5503	1-216-308-00	METAL GLAZE	4.7 5% 1/10W (KV-E2521D ONLY)
	1-216-001-00	METAL GLAZE	10 5% 1/10W (KV-E2921D ONLY)
R5504	1-216-121-00	METAL GLAZE	1M 5% 1/10W (KV-E2921D ONLY)
R5505	1-216-001-00	METAL GLAZE	10 5% 1/10W (KV-E2921D ONLY)
R5506	1-216-075-00	METAL GLAZE	12K 5% 1/10W (KV-E2921D ONLY)
<VARIABLE RESISTOR>			
RV501	1-238-013-11	RES, ADJ, CARBON 2.2K	
RV502	1-238-016-11	RES, ADJ, CARBON 10K	
RV601	1-238-011-11	RES, ADJ, CARBON 470	
<SPARK GAP>			
SG801	1-519-422-11	GAP, SPARK	
<THERMISTOR>			
THP601 $\Delta$	1-808-059-32	THERMISTOR, POSITIVE	

REF.NO.	PART NO.	DESCRIPTION	REMARK
*****			
	*1-634-193-11	VM BOARD (KV-E2921D ONLY)	*****
	*1-568-878-51	PIN, CONNECTOR 3P	
<CAPACITOR>			
C751	1-101-361-00	CERAMIC	150PF 5% 50V
C752	1-108-629-11	MYLAR	0.018MF 10% 100V
C753	1-137-047-11	FILM	0.01MF 10% 400V
C754	1-102-980-00	CERAMIC	270PF 5% 50V
C757	1-108-692-11	MYLAR	0.01MF 10% 200V
C759	1-123-875-11	ELECT	10MF 20% 50V
C760	1-124-917-11	ELECT	33MF 20% 50V
C761	1-101-006-00	CERAMIC	0.047MF 50V
C762	1-137-047-11	FILM	0.01MF 10% 400V
<COIL>			
L751	1-408-413-00	INDUCTOR	22UH
L770	1-410-665-31	INDUCTOR	15UH
<TRANSISTOR>			
Q751	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q752	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q753	8-729-140-97	TRANSISTOR 2SB734-34	
Q754	8-729-140-96	TRANSISTOR 2SD774-34	
<RESISTOR>			
R751	1-249-418-11	CARBON	1.2K 5% 1/4W
R752	1-249-426-11	CARBON	5.6K 5% 1/4W
R753	1-249-414-11	CARBON	560 5% 1/4W
R754	1-249-434-11	CARBON	27K 5% 1/4W
R755	1-249-405-11	CARBON	100 5% 1/4W
R756	1-249-419-11	CARBON	1.5K 5% 1/4W
R757	1-249-405-11	CARBON	100 5% 1/4W
R758	1-249-409-11	CARBON	220 5% 1/4W
R760	1-249-411-11	CARBON	330 5% 1/4W
R761	1-249-429-11	CARBON	10K 5% 1/4W
R762	1-247-895-00	CARBON	470K 5% 1/4W
R763	1-249-429-11	CARBON	10K 5% 1/4W
R764	1-249-455-11	CARBON	4.7 5% 1/4W F
R765	1-249-455-11	CARBON	4.7 5% 1/4W F
R766	1-247-753-11	CARBON	1.2K 5% 1/2W
R767	1-247-751-11	CARBON	820 5% 1/2W
R768	1-215-887-00	METAL OXIDE	150 5% 2W F
R769	1-212-889-00	FUSIBLE	220 5% 1/4W F
*****			
	A-1645-013-A	V BOARD, COMPLETE	*****
<CAPACITOR>			
C1	1-126-101-11	ELECT	100MF 20% 16V
C2	1-163-038-00	CERAMIC CHIP	0.1MF 25V
C3	1-124-120-11	ELECT	220MF 20% 16V
C4	1-163-077-00	CERAMIC CHIP	0.1MF 50V
C5	1-124-120-11	ELECT	220MF 20% 16V
C6	1-163-038-00	CERAMIC CHIP	0.1MF 25V

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C7	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	JR11	1-216-295-00	METAL GLAZE	0 5% 1/10W
C8	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	JR12	1-216-295-00	METAL GLAZE	0 5% 1/10W
C9	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	JR13	1-216-296-00	METAL GLAZE	0 5% 1/8W
C10	1-163-038-00	CERAMIC CHIP 0.1MF	25V	JR14	1-216-296-00	METAL GLAZE	0 5% 1/8W
C11	1-163-038-00	CERAMIC CHIP 0.1MF	25V	JR16	1-216-296-00	METAL GLAZE	0 5% 1/8W
C12	1-163-038-00	CERAMIC CHIP 0.1MF	25V	JR17	1-216-295-00	METAL GLAZE	0 5% 1/10W
C13	1-163-038-00	CERAMIC CHIP 0.1MF	25V	JR21	1-216-296-00	METAL GLAZE	0 5% 1/8W
C14	1-124-927-11	ELECT 4.7MF	20% 50V	JR22	1-216-295-00	METAL GLAZE	0 5% 1/10W
C15	1-124-927-11	ELECT 4.7MF	20% 50V	JR23	1-216-295-00	METAL GLAZE	0 5% 1/10W
C16	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	JR24	1-216-296-00	METAL GLAZE	0 5% 1/8W
C17	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	JR26	1-216-296-00	METAL GLAZE	0 5% 1/8W
C18	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	JR27	1-216-295-00	METAL GLAZE	0 5% 1/10W
C19	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	JR201	1-216-295-00	METAL GLAZE	0 5% 1/10W
<CONNECTOR>				JR204	1-216-295-00	METAL GLAZE	0 5% 1/10W
CNV1	*1-565-393-11	CONNECTOR, BOARD TO BOARD		JR207	1-216-295-00	METAL GLAZE	0 5% 1/10W
CNV2	*1-565-393-11	CONNECTOR, BOARD TO BOARD		JR208	1-216-295-00	METAL GLAZE	0 5% 1/10W
<DIODE>				JR211	1-216-295-00	METAL GLAZE	0 5% 1/10W
D1	8-719-105-91	DIODE RD5.6M-B2		JR213	1-216-295-00	METAL GLAZE	0 5% 1/10W
D3	8-719-914-44	DIODE DAP202K		JR219	1-216-296-00	METAL GLAZE	0 5% 1/8W
D4	8-719-400-18	DIODE MA152WK		JR220	1-216-295-00	METAL GLAZE	0 5% 1/10W
D5	8-719-914-44	DIODE DAP202K		JR223	1-216-295-00	METAL GLAZE	0 5% 1/10W
D6	8-719-400-18	DIODE MA152WK		R1	1-218-326-11	METAL GLAZE	470 5% 1/2W
D7	8-719-105-52	DIODE RD3.6M-B2		R3	1-216-049-00	METAL GLAZE	1K 5% 1/10W
D9	8-719-106-17	DIODE RD6.8M-B2		R4	1-216-025-00	METAL GLAZE	100 5% 1/10W
<IC>				R5	1-216-047-00	METAL GLAZE	820 5% 1/10W
IC1	8-759-038-58	IC SDA20162-A002		R6	1-216-001-00	METAL GLAZE	10 5% 1/10W
IC2	8-759-510-46	IC SAA5246P/E		R7	1-216-083-00	METAL GLAZE	27K 5% 1/10W
IC3	8-759-510-49	IC FCB61C65-70P		R8	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
<COIL>				R9	1-216-308-00	METAL GLAZE	4.7 5% 1/10W
L1	1-408-403-00	INDUCTOR 3.3UH		R02	1-216-214-00	METAL GLAZE	4.7K 5% 1/8W
L2	1-408-407-00	INDUCTOR 6.8UH		R10	1-218-325-11	METAL GLAZE	120 5% 1/4W
L3	1-408-407-00	INDUCTOR 6.8UH		R11	1-218-325-11	METAL GLAZE	120 5% 1/4W
L4	1-408-407-00	INDUCTOR 6.8UH		R12	1-218-325-11	METAL GLAZE	120 5% 1/4W
<IC LINK>				R13	1-216-025-00	METAL GLAZE	100 5% 1/10W
PS1	$\Delta$ 1-532-679-91	LINK, IC (ICP-N15) 0.6A		R14	1-216-001-00	METAL GLAZE	10 5% 1/10W
<TRANSISTOR>				R15	1-216-013-00	METAL GLAZE	33 5% 1/10W
Q1	8-729-900-53	TRANSISTOR DTC114EK		R16	1-216-013-00	METAL GLAZE	33 5% 1/10W
Q2	8-729-920-92	TRANSISTOR 2SD2096-EF		R17	1-216-013-00	METAL GLAZE	33 5% 1/10W
Q3	8-729-901-78	TRANSISTOR 2SC2412K-R		R18	1-216-025-00	METAL GLAZE	100 5% 1/10W
Q4	8-729-901-78	TRANSISTOR 2SC2412K-R		R19	1-216-025-00	METAL GLAZE	100 5% 1/10W
Q5	8-729-807-87	TRANSISTOR 2SB1295-UL6		R20	1-216-041-00	METAL GLAZE	470 5% 1/10W
Q6	8-729-807-87	TRANSISTOR 2SB1295-UL6		R21	1-216-041-00	METAL GLAZE	470 5% 1/10W
Q7	8-729-807-87	TRANSISTOR 2SB1295-UL6		R22	1-216-168-00	METAL GLAZE	56 5% 1/8W
Q8	8-729-901-78	TRANSISTOR 2SC2412K-R		R23	1-216-214-00	METAL GLAZE	4.7K 5% 1/8W
<RESISTOR>				R24	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
JR01	1-216-295-00	METAL GLAZE	0 5% 1/10W	R25	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
JR02	1-216-295-00	METAL GLAZE	0 5% 1/10W	R26	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR03	1-216-295-00	METAL GLAZE	0 5% 1/10W	R27	1-216-214-00	METAL GLAZE	4.7K 5% 1/8W
JR08	1-216-295-00	METAL GLAZE	0 5% 1/10W	R28	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
JR09	1-216-295-00	METAL GLAZE	0 5% 1/10W	R34	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
<VARIABLE RESISTOR>				R35	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
				R40	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
				R41	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
				R42	1-216-049-00	METAL GLAZE	1K 5% 1/10W
				R44	1-216-295-00	METAL GLAZE	0 5% 1/10W
				R46	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
				R47	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
				R49	1-216-049-00	METAL GLAZE	1K 5% 1/10W
				RV1	1-238-012-11	RES, ADJ, CARBON 1K	

# V H1 H2 J2 J1

REF.NO. PART NO. DESCRIPTION

## <CRYSTAL>

X1 1-579-266-21 CRYSTAL VIBRATOR  
X2 1-577-364-11 VIBRATOR, CERAMIC

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\*1-638-391-11 H1 BOARD  
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1-562-837-11 JACK  
\*1-564-512-11 PLUG, CONNECTOR 9P  
1-568-678-11 TERMINAL BLOCK, S 3P  
\*1-568-879-51 PIN, CONNECTOR 4P  
\*1-568-881-51 PIN, CONNECTOR 6P

## <RESISTOR>

R1651 1-249-413-11 CARBON 470 5% 1/4W  
R1652 1-249-413-11 CARBON 470 5% 1/4W

## <SWITCH>

S1651 1-571-532-21 SWITCH, TACTIL  
S1652 1-571-532-21 SWITCH, TACTIL  
S1653 1-571-532-21 SWITCH, TACTIL

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\*1-638-392-11 H2 BOARD  
\*\*\*\*\*

\*1-568-882-51 PIN, CONNECTOR 7P  
\*4-374-987-01 GUIDE, LIGHT  
\*4-381-686-01 BRACKET (B), LIGHT GUIDE

## <DIODE>

D1651 8-719-948-31 DIODE LD-201VR  
\*4-201-076-01 HOLDER, LED; D1651  
D1652 8-719-948-31 DIODE LD-201VR  
\*4-201-076-01 HOLDER, LED; D1652  
D1654 8-719-948-31 DIODE LD-201VR  
\*4-201-076-01 HOLDER, LED; D1654

## <IC>

IC1651 8-741-101-75 IC SBX1610-11

## <RESISTOR>

R1662 1-249-413-11 CARBON 470 5% 1/4W

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\*1-638-393-11 J2 BOARD  
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1-537-339-11 TERMINAL BOARD  
\*1-560-278-21 PLUG, CONNECTOR 4P  
\*1-564-517-11 PLUG, CONNECTOR 2P  
\*1-564-519-11 PLUG, CONNECTOR 4P

## <CAPACITOR>

C1751 1-101-005-00 CERAMIC 0.022MF 50V  
C1752 1-101-005-00 CERAMIC 0.022MF 50V  
C1755 1-102-114-00 CERAMIC 470PF 10% 50V  
C1756 1-102-114-00 CERAMIC 470PF 10% 50V

REMARK

REF.NO. PART NO.

DESCRIPTION

REMARK

## <COIL>

L1751 1-412-240-11 INDUCTOR, WIDE BAND  
L1752 1-412-240-11 INDUCTOR, WIDE BAND

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A-1651-018-A J1 BOARD, COMPLETE (KV-E2521D ONLY)

A-1651-020-A J1 BOARD, COMPLETE (KV-E2921D ONLY)

1-561-534-41 SOCKET 21P  
\*1-564-524-11 PLUG, CONNECTOR 9P  
\*1-564-527-11 PLUG, CONNECTOR 12P  
\*1-566-641-11 CONNECTOR, HINGE (TAB) 18P

## <CAPACITOR>

C203 1-124-925-11 ELECT 2.2MF 20% 50V  
C205 1-124-927-11 ELECT 4.7MF 20% 50V  
C206 1-124-925-11 ELECT 2.2MF 20% 50V  
C207 1-124-927-11 ELECT 4.7MF 20% 50V  
C213 1-126-233-11 ELECT 22MF 20% 50V

C214 1-137-045-11 FILM 0.0068MF 10% 400V  
C217 1-137-045-11 FILM 0.0068MF 10% 400V  
C218 1-137-102-11 FILM 0.022MF 10% 250V  
C219 1-137-102-11 FILM 0.022MF 10% 250V  
C220 1-108-686-11 MYLAR 0.0033MF 10% 100V

C221 1-108-686-11 MYLAR 0.0033MF 10% 100V  
C222 1-137-095-11 FILM 0.056MF 10% 100V  
C223 1-137-095-11 FILM 0.056MF 10% 100V  
C224 1-137-047-11 FILM 0.01MF 10% 400V  
C225 1-136-173-00 FILM 0.47MF 5% 50V

C226 1-136-173-00 FILM 0.47MF 5% 50V  
C227 1-137-102-11 FILM 0.022MF 10% 250V  
C228 1-137-104-11 FILM 0.033MF 10% 250V  
C229 1-137-049-11 FILM 0.015MF 10% 400V  
C230 1-137-049-11 FILM 0.015MF 10% 400V

C231 1-124-902-00 ELECT 0.47MF 20% 50V  
C232 1-123-875-11 ELECT 10MF 20% 50V  
C233 1-163-005-11 CERAMIC CHIP 470PF 10% 50V  
C234 1-163-005-11 CERAMIC CHIP 470PF 10% 50V  
C235 1-163-005-11 CERAMIC CHIP 470PF 10% 50V

C236 1-163-005-11 CERAMIC CHIP 470PF 10% 50V  
C237 1-124-902-00 ELECT 0.47MF 20% 50V  
C238 1-163-125-00 CERAMIC CHIP 220PF 5% 50V  
C239 1-126-103-11 ELECT 470MF 20% 16V  
C240 1-163-018-00 CERAMIC CHIP 0.0056MF 10% 50V

C241 1-163-018-00 CERAMIC CHIP 0.0056MF 10% 50V  
C242 1-163-033-00 CERAMIC CHIP 0.022MF 50V  
C243 1-163-033-00 CERAMIC CHIP 0.022MF 50V  
C244 1-163-033-00 CERAMIC CHIP 0.022MF 50V  
C245 1-163-033-00 CERAMIC CHIP 0.022MF 50V

C1401 1-123-875-11 ELECT 10MF 20% 50V  
C1402 1-126-103-11 ELECT 470MF 20% 16V  
C1403 1-163-003-11 CERAMIC CHIP 330PF 10% 50V  
C1404 1-137-035-11 FILM 0.47MF 10% 100V  
C1405 1-136-017-00 CERAMIC CHIP 0.0047MF 50V

C1406 1-137-035-11 FILM 0.47MF 10% 100V  
C1407 1-124-910-11 ELECT 47MF 20% 50V  
C1408 1-124-122-11 ELECT 100MF 20% 50V  
C1409 1-126-233-11 ELECT 22MF 20% 50V  
C1410 1-123-875-11 ELECT 10MF 20% 50V

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK		
C1411	1-123-875-11	ELECT	10MF	20%	50V	D1410	8-719-110-14	DIODE RD9.1ES-B3	
C1412	1-124-910-11	ELECT	47MF	20%	50V	D1415	8-719-110-03	DIODE RD7.5ES-B2	
C1413	1-124-910-11	ELECT	47MF	20%	50V	D1418	8-719-110-03	DIODE RD7.5ES-B2	
C1414	1-123-875-11	ELECT	10MF	20%	50V	D1419	8-719-110-03	DIODE RD7.5ES-B2	
C1415	1-137-035-11	FILM	0.47MF	10%	100V	D1420	8-719-110-03	DIODE RD7.5ES-B2	
C1416	1-137-035-11	FILM	0.47MF	10%	100V	D1421	8-719-110-03	DIODE RD7.5ES-B2	
C1417	1-124-120-11	ELECT	220MF	20%	16V	D1422	8-719-110-03	DIODE RD7.5ES-B2	
C1418	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	D1423	8-719-110-03	DIODE RD7.5ES-B2	
C1419	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	D1424	8-719-110-03	DIODE RD7.5ES-B2	
C1425	1-124-902-00	ELECT	0.47MF	20%	50V	D1425	8-719-110-03	DIODE RD7.5ES-B2	
C1426	1-124-902-00	ELECT	0.47MF	20%	50V	D1426	8-719-110-03	DIODE RD7.5ES-B2	
C1427	1-136-017-00	CERAMIC CHIP	0.0047MF		50V	D1501	8-719-300-33	DIODE RU-3AM	
C1428	1-136-017-00	CERAMIC CHIP	0.0047MF		50V	D1502	8-719-911-19	DIODE 1SS119	
C1429	1-136-017-00	CERAMIC CHIP	0.0047MF		50V	D1503	8-719-911-19	DIODE 1SS119	
C1430	1-163-003-11	CERAMIC CHIP	330PF	10%	50V	D1504	8-719-911-19	DIODE 1SS119	
C1431	1-126-529-11	ELECT	0.47MF	20%	50V	D1505	8-719-911-19	DIODE 1SS119	
C1432	1-124-902-00	ELECT	0.47MF	20%	50V	D1506	8-719-982-33	DIODE MTZJ-36D	
C1433	1-124-122-11	ELECT	100MF	20%	50V	D1507	8-719-911-19	DIODE 1SS119	
C1436	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	D1510	8-719-911-19	DIODE 1SS119	
C1437	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V				
C1438	1-137-047-11	FILM	0.01MF	10%	400V				
C1439	1-137-047-11	FILM	0.01MF	10%	400V				
C1440	1-123-875-11	ELECT	10MF	20%	50V				
C1441	1-123-875-11	ELECT	10MF	20%	50V				
C1442	1-137-035-11	FILM	0.47MF	10%	100V				
C1443	1-137-035-11	FILM	0.47MF	10%	100V				
C1444	1-124-910-11	ELECT	47MF	20%	50V				
C1445	1-102-824-00	CERAMIC	470PF	5%	50V				
C1446	1-102-824-00	CERAMIC	470PF	5%	50V				
C1501	1-124-927-11	ELECT	4.7MF	20%	50V				
C1502	1-124-791-11	ELECT	1MF	20%	50V				
C1503	1-108-680-11	MYLAR	0.001MF	10%	100V				
C1504	1-124-910-11	ELECT	47MF	20%	50V				
C1505	1-137-094-11	FILM	0.047MF	10%	100V				
C1507	1-108-686-11	MYLAR	0.0033MF	10%	100V				
C1508	1-124-791-11	ELECT	1MF	20%	50V				
C1509	1-124-791-11	ELECT	1MF	20%	50V				
C1511	1-124-927-11	ELECT	4.7MF	20%	50V				
C1512	1-137-045-11	FILM	0.0068MF	10%	400V				
					(KV-E2521D ONLY)				
C1513	1-163-105-00	CERAMIC CHIP	33PF	5%	50V				
C1514	1-137-102-11	FILM	0.022MF	10%	250V				
					(KV-E2521D ONLY)				
C1515	1-102-117-00	CERAMIC	820PF	10%	50V				
					(KV-E2521D ONLY)				
<CONNECTOR>									
CN1401	1-565-838-11	JACK BLOCK, PIN 2P							
<DIODE>									
D201	8-719-110-14	DIODE RD9.1ES-B3				D201	8-719-110-14	DIODE RD9.1ES-B3	
D202	8-719-110-14	DIODE RD9.1ES-B3				D202	8-719-110-14	DIODE RD9.1ES-B3	
D205	8-719-110-03	DIODE RD7.5ES-B2				D205	8-719-110-03	DIODE RD7.5ES-B2	
D206	8-719-110-03	DIODE RD7.5ES-B2				D206	8-719-110-03	DIODE RD7.5ES-B2	
D1401	8-719-110-03	DIODE RD7.5ES-B2				D1401	8-719-110-03	DIODE RD7.5ES-B2	
D1403	8-719-110-03	DIODE RD7.5ES-B2				D1403	8-719-110-03	DIODE RD7.5ES-B2	
D1404	8-719-110-03	DIODE RD7.5ES-B2				D1404	8-719-110-03	DIODE RD7.5ES-B2	
D1405	8-719-110-03	DIODE RD7.5ES-B2				D1405	8-719-110-03	DIODE RD7.5ES-B2	
D1406	8-719-110-03	DIODE RD7.5ES-B2				D1406	8-719-110-03	DIODE RD7.5ES-B2	
D1407	8-719-921-77	DIODE MTZN-10C				D1407	8-719-921-77	DIODE MTZN-10C	
D1408	8-719-110-14	DIODE RD9.1ES-B3				D1408	8-719-110-14	DIODE RD9.1ES-B3	
D1409	8-719-110-14	DIODE RD9.1ES-B3				D1409	8-719-110-14	DIODE RD9.1ES-B3	
<IC>									
IC201	8-759-013-17	IC TDA6200				IC201	8-759-013-17	IC TDA6200	
IC1401	8-752-053-17	IC CXA1114P				IC1401	8-752-053-17	IC CXA1114P	
IC1402	8-759-946-32	IC TEA2014A				IC1402	8-759-946-32	IC TEA2014A	
IC1403	8-759-040-53	IC MC14053BCP				IC1403	8-759-040-53	IC MC14053BCP	
IC1501	8-759-942-16	IC TEA2031A				IC1501	8-759-942-16	IC TEA2031A	
<TRANSISTOR>									
Q201	8-729-901-78	TRANSISTOR 2SC2412K-R				Q201	8-729-901-78	TRANSISTOR 2SC2412K-R	
Q202	8-729-901-78	TRANSISTOR 2SC2412K-R				Q202	8-729-901-78	TRANSISTOR 2SC2412K-R	
Q1401	8-729-216-22	TRANSISTOR 2SA1162-G				Q1401	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1402	8-729-901-78	TRANSISTOR 2SC2412K-R				Q1402	8-729-901-78	TRANSISTOR 2SC2412K-R	
Q1403	8-729-901-78	TRANSISTOR 2SC2412K-R				Q1403	8-729-901-78	TRANSISTOR 2SC2412K-R	
Q1404	8-729-216-22	TRANSISTOR 2SA1162-G				Q1404	8-729-216-22	TRANSISTOR 2SA1162-G	
<RESISTOR>									
R201	1-216-079-00	METAL GLAZE 18K	5%	1/10W		R201	1-216-079-00	METAL GLAZE 18K	5%
R202	1-216-206-00	METAL GLAZE 2.2K	5%	1/8W		R202	1-216-206-00	METAL GLAZE 2.2K	5%
R203	1-216-075-00	METAL GLAZE 12K	5%	1/10W		R203	1-216-075-00	METAL GLAZE 12K	5%
R204	1-216-085-00	METAL GLAZE 33K	5%	1/10W		R204	1-216-085-00	METAL GLAZE 33K	5%
R205	1-216-085-00	METAL GLAZE 33K	5%	1/10W		R205	1-216-085-00	METAL GLAZE 33K	5%
R206	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W		R206	1-216-061-00	METAL GLAZE 3.3K	5%
R207	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W		R207	1-216-061-00	METAL GLAZE 3.3K	5%
R208	1-216-077-00	METAL GLAZE 15K	5%	1/10W		R208	1-216-077-00	METAL GLAZE 15K	5%
R209	1-216-081-00	METAL GLAZE 22K	5%	1/10W		R209	1-216-081-00	METAL GLAZE 22K	5%
R210	1-216-077-00	METAL GLAZE 15K	5%	1/10W		R210	1-216-077-00	METAL GLAZE 15K	5%
R211	1-216-097-00	METAL GLAZE 100K	5%	1/10W		R211	1-216-097-00	METAL GLAZE 100K	5%
R212	1-216-081-00	METAL GLAZE 22K	5%	1/10W		R212	1-216-081-00	METAL GLAZE 22K	5%
R213	1-216-077-00	METAL GLAZE 15K	5%	1/10W		R213	1-216-077-00	METAL GLAZE 15K	5%
R214	1-216-033-00	METAL GLAZE 220	5%	1/10W		R214	1-216-033-00	METAL GLAZE 220	5%
R215	1-216-081-00	METAL GLAZE 22K	5%	1/10W		R215	1-216-081-00	METAL GLAZE 22K	5%
R216	1-216-081-00	METAL GLAZE 22K	5%	1/10W		R216	1-216-081-00	METAL GLAZE 22K	5%
R217	1-216-077-00	METAL GLAZE 15K	5%	1/10W		R217	1-216-077-00	METAL GLAZE 15K	5%
R218	1-216-033-00	METAL GLAZE 220	5%	1/10W		R218	1-216-033-00	METAL GLAZE 220	5%
R219	1-216-073-00	METAL GLAZE 10K	5%	1/10W		R219	1-216-073-00	METAL GLAZE 10K	5%
R220	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W		R220	1-216-057-00	METAL GLAZE 2.2K	5%
R221	1-216-041-00	METAL GLAZE 470	5%	1/10W		R221	1-216-041-00	METAL GLAZE 470	5%
R222	1-216-041-00	METAL GLAZE 470	5%	1/10W		R222	1-216-041-00	METAL GLAZE 470	5%
R223	1-216-049-00	METAL GLAZE 1K	5%	1/10W		R223	1-216-049-00	METAL GLAZE 1K	5%
R224	1-216-049-00	METAL GLAZE 1K	5%	1/10W		R224	1-216-049-00	METAL GLAZE 1K	5%
R225	1-216-049-00	METAL GLAZE 1K	5%	1/10W		R225	1-216-049-00	METAL GLAZE 1K	5%

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REF. NO. PART NO. DESCRIPTION

R226	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R227	1-216-033-00	METAL GLAZE	220	5%	1/10W
R228	1-216-033-00	METAL GLAZE	220	5%	1/10W
R229	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R230	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R231	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R232	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R233	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R234	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R240	1-216-033-00	METAL GLAZE	220	5%	1/10W
R241	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R242	1-216-091-00	METAL GLAZE	56K	5%	1/10W
R243	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R244	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R245	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R246	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R247	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R248	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R249	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R250	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W
R1401	1-216-023-00	METAL GLAZE	82	5%	1/10W
R1402	1-216-170-00	METAL GLAZE	68	5%	1/8W
R1403	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R1404	1-216-178-00	METAL GLAZE	150	5%	1/8W
R1405	1-249-429-11	CARBON	10K	5%	1/4W
R1407	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1408	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R1409	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1410	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R1411	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1412	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R1413	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1414	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R1415	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1416	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1417	1-216-023-00	METAL GLAZE	82	5%	1/10W
R1418	1-247-738-11	CARBON	82	5%	1/2W F
R1422	1-216-025-00	METAL GLAZE	100	5%	1/10W
R1423	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1424	1-216-083-00	METAL GLAZE	27K	5%	1/10W
R1425	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1426	1-216-025-00	METAL GLAZE	100	5%	1/10W
R1427	1-216-001-00	METAL GLAZE	10	5%	1/10W
R1428	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1429	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R1430	1-216-170-00	METAL GLAZE	68	5%	1/8W
R1431	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1432	1-216-041-00	METAL GLAZE	470	5%	1/10W
R1433	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1434	1-249-393-11	CARBON	10	5%	1/4W F
R1437	1-249-429-11	CARBON	10K	5%	1/4W
R1440	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1441	1-216-045-00	METAL GLAZE	680	5%	1/10W
R1442	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R1443	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R1444	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1445	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R1446	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1447	1-216-033-00	METAL GLAZE	220	5%	1/10W
R1448	1-216-025-00	METAL GLAZE	100	5%	1/10W
R1452	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R1453	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R1454	1-216-180-00	METAL GLAZE	180	5%	1/8W
R1455	1-216-180-00	METAL GLAZE	180	5%	1/8W

REMARK

REF. NO. PART NO. DESCRIPTION

REMARK

R1457	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1459	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1460	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1461	1-216-190-00	METAL GLAZE	470	5%	1/8W	
R1462	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R1463	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1464	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R1465	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1466	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1467	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1468	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1469	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1470	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R1471	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1472	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1473	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R1474	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1476	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1477	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R1478	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1480	1-216-190-00	METAL GLAZE	470	5%	1/8W	
R1482	1-216-178-00	METAL GLAZE	150	5%	1/8W	
R1483	1-216-178-00	METAL GLAZE	150	5%	1/8W	
R1484	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1485	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1486	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1487	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1488	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1489	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R1501	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1502	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R1503	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1504	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R1505	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R1506	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R1509	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R1510	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R1511	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1512	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R1513	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R1514	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R1515	1-216-117-00	METAL GLAZE	680K	5%	1/10W	(KV-E2521D ONLY)
R1516	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R1517	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R1519	1-216-101-00	METAL GLAZE	150K	5%	1/10W	
R1520	1-216-113-00	METAL GLAZE	470K	5%	1/10W	(KV-E2521D ONLY)
	1-216-111-00	METAL GLAZE	390K	5%	1/10W	(KV-E2921D ONLY)
R1521	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W	
R1550	1-216-349-00	METAL OXIDE	1	5%	1W F	(KV-E2921D ONLY)
R1556	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
<VARIABLE RESISTOR>						
RV1501	1-238-023-11	RES, ADJ, CARBON	470K			
RV1502	1-238-016-11	RES, ADJ, CARBON	10K			
RV1503	1-238-017-11	RES, ADJ, CARBON	22K			
RV1504	1-238-012-11	RES, ADJ, CARBON	1K			
RV1505	1-238-023-11	RES, ADJ, CARBON	470K			
RV1506	1-238-017-11	RES, ADJ, CARBON	22K			

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

**J1 IFG**

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
RV1507	1-238-009-11	RES, ADJ, CARBON 220		IC1	8-759-003-90	IC TBA129	
RV1508	1-238-016-11	RES, ADJ, CARBON 10K		IC2	8-759-003-90	IC TBA129	
RV1509	1-238-023-11	RES, ADJ, CARBON 470K		IC3	8-759-030-48	IC TDA6600-2	
*****				IC4	8-759-513-48	IC TDA2595/V9	
A-1654-004-A	IFG BOARD, COMPLETE			<COIL>			
*****				L1	1-408-410-00	INDUCTOR 12UH	
*1-565-488-11	CONNECTOR, BOARD TO BOARD 12P			L2	1-408-410-00	INDUCTOR 12UH	
<CAPACITOR>				L3	1-410-064-11	INDUCTOR 2.7MMH	
C1	1-164-232-11	CERAMIC CHIP 0.01MF	50V	L4	1-408-421-00	INDUCTOR 100UH	
C2	1-164-232-11	CERAMIC CHIP 0.01MF	50V	L5	1-408-421-00	INDUCTOR 100UH	
C3	1-164-232-11	CERAMIC CHIP 0.01MF	50V	<TRANSISTOR>			
C4	1-164-232-11	CERAMIC CHIP 0.01MF	50V	Q2	8-729-901-00	TRANSISTOR DTC124EK	
C5	1-164-232-11	CERAMIC CHIP 0.01MF	50V	Q3	8-729-216-22	TRANSISTOR 2SA1162-G	
C6	1-164-232-11	CERAMIC CHIP 0.01MF	50V	Q4	8-729-901-00	TRANSISTOR DTC124EK	
C7	1-124-791-11	ELECT 1MF	20% 50V	<RESISTOR>			
C8	1-123-875-11	ELECT 10MF	20% 50V	JR8	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C9	1-130-471-00	MYLAR 0.001MF	5% 50V	JR10	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C10	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	R1	1-216-045-00	METAL GLAZE 680 5% 1/10W	
C11	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	R2	1-216-043-00	METAL GLAZE 560 5% 1/10W	
C12	1-136-298-00	FILM 0.0033MF	2% 100V	R3	1-216-043-00	METAL GLAZE 560 5% 1/10W	
C13	1-124-477-11	ELECT 47MF	20% 16V	R5	1-216-045-00	METAL GLAZE 680 5% 1/10W	
C14	1-124-477-11	ELECT 47MF	20% 16V	R6	1-216-043-00	METAL GLAZE 560 5% 1/10W	
C15	1-124-477-11	ELECT 47MF	20% 16V	R7	1-216-043-00	METAL GLAZE 560 5% 1/10W	
C16	1-124-477-11	ELECT 47MF	20% 16V	R9	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
C17	1-123-875-11	ELECT 10MF	20% 50V	R11	1-216-095-00	METAL GLAZE 82K 5% 1/10W	
C18	1-137-047-11	FILM 0.01MF	10% 400V	R12	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
C19	1-137-047-11	FILM 0.01MF	10% 400V	R13	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
C20	1-126-233-11	ELECT 22MF	20% 50V	R15	1-216-059-00	METAL GLAZE 2.7K 5% 1/10W	
C21	1-126-233-11	ELECT 22MF	20% 50V	R16	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
C22	1-137-098-11	FILM 0.1MF	10% 100V	R17	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
C23	1-137-031-11	FILM 0.22MF	10% 100V	R18	1-216-063-00	METAL GLAZE 3.9K 5% 1/10W	
C24	1-124-034-51	ELECT 33MF	20% 16V	R19	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
C25	1-137-102-11	FILM 0.022MF	10% 250V	R20	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
C26	1-137-094-11	FILM 0.047MF	10% 100V	R22	1-216-099-00	METAL GLAZE 120K 5% 1/10W	
C27	1-124-791-11	ELECT 1MF	20% 50V	R24	1-216-089-00	METAL GLAZE 47K 5% 1/10W	
C28	1-163-109-00	CERAMIC CHIP 47PF	5% 50V	R25	1-216-077-00	METAL GLAZE 15K 5% 1/10W	
C29	1-124-791-11	ELECT 1MF	20% 50V	<VARIABLE RESISTOR>			
C30	1-124-791-11	ELECT 1MF	20% 50V	RV1	1-238-016-11	RES, ADJ, CARBON 10K	
C31	1-137-047-11	FILM 0.01MF	10% 400V	RV2	1-238-019-11	RES, ADJ, CARBON 47K	
C32	1-130-479-00	MYLAR 0.0047MF	5% 50V	*****			
C33	1-163-081-00	CERAMIC CHIP 0.22MF	25V	MISCELLANEOUS			
C34	1-137-031-11	FILM 0.22MF	10% 100V	*****			
C35	1-123-875-11	ELECT 10MF	20% 50V	$\Delta$ 1-460-091-11	COIL, DEGAUSS (KV-E2521D ONLY)		
C36	1-163-119-00	CERAMIC CHIP 120PF	5% 50V	$\Delta$ 1-426-398-11	COIL, DEMAGNETIZATION (KV-E2921D ONLY)		
C37	1-124-477-11	ELECT 47MF	20% 16V	$\Delta$ 1-451-311-21	DEFLECTION YOKE (Y25FXA) (KV-E2521D ONLY)		
C38	1-124-477-11	ELECT 47MF	20% 16V	$\Delta$ 1-451-313-21	DEFLECTION YOKE (Y29FXA) (KV-E2921D ONLY)		
C39	1-163-197-00	CERAMIC CHIP 470PF	5% 50V	1-452-032-00	MAGNET, DISK; 10MM $\phi$		
<FILTER>				1-452-094-00	MAGNET, ROTATABLE DISK; 15MM $\phi$		
CDA1	1-404-751-11	DISCRIMINATOR, CERAMIC		$\Delta$ 1-452-509-42	NECK ASSY, PICTURE TUBE (NA-308) (KV-E2921D ONLY)		
CDA2	1-404-750-11	DISCRIMINATOR, CERAMIC		$\Delta$ 1-590-501-11	CORD, POWER(WITH NOISE FILTER)		
SFT1	1-527-840-00	FILTER, CERAMIC		V901 $\Delta$ 8-733-224-05	PICTURE TUBE (A59JWC60X) (KV-E2521D ONLY)		
SFT2	1-527-839-00	FILTER, CERAMIC		$\Delta$ 8-733-824-05	PICTURE TUBE (A68JYK60X) (KV-E2921D ONLY)		
<DIODE>				*****			
D3	8-719-400-18	DIODE MA152WK					
<IC>							



# ACCESSORIES AND PACKING MATERIALS

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PART NO.	DESCRIPTION	REMARK
*A-1678-001-A	BOX ASSY, WOOFER	
*A-1678-010-A	BOX ASSY (RIGHT), SPEAKER	(KV-E2521D ONLY)
*A-1678-003-A	BOX ASSY (RIGHT), SPEAKER	(KV-E2921D ONLY)
*A-1678-012-A	BOX ASSY (LEFT), SPEAKER	(KV-E2521D ONLY)
*A-1678-005-A	BOX ASSY (LEFT), SPEAKER	(KV-E2921D ONLY)
*3-704-280-01	BAG (STANDARD), PROTECTION	(KV-E2521D ONLY)
*3-704-283-01	BAG (STANDARD), PROTECTION	(KV-E2921D ONLY)
4-200-591-11	MANUAL, INSTRUCTION	(GERMAN/ENGLISH/FRENCH/ DUTCH/ITALIAN/PORTUGUESE)
*4-201-015-02	INDIVIDUAL CARTON (KV-E2521D ONLY)	
*4-200-036-01	INDIVIDUAL CARTON (KV-E2921D ONLY)	
*4-201-012-02	CUSHION (UPPER) (ASSY) (KV-E2521D ONLY)	
*4-200-041-02	CUSHION (UPPER) (ASSY) (KV-E2921D ONLY)	
*4-201-013-01	CUSHION (LOWER) (ASSY) (KV-E2521D ONLY)	
*4-200-042-01	CUSHION (LOWER) (ASSY) (KV-E2921D ONLY)	
*4-380-340-01	BAG, PROTECTION (KV-E2521D ONLY)	
*4-384-027-01	BAG, PROTECTION (KV-E2921D ONLY)	

## REMOTE COMMANDER

1-465-797-11	COMMANDER, REMOTE (RM-817)
4-031-670-11	COVER, POCKET (FOR RM-817)